Hopping Green & Sams

Attorneys and Counselors

ORIGINAL

Writer's Direct Dial Number (850) 425-2359

July 1, 2005

BY HAND DELIVERY

Blanca Bayó Director, Office of the Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850

Re: Docket No. 050256-EM

Dear Ms. Bayó:

2

Enclosed for filing on behalf of Florida Municipal Power Agency ("FMPA") are the original and fifteen copies of the following:

- Errata sheet for direct testimony of Richard L. Casey;
- Errata sheet for direct testimony of Myron R. Rollins;
- Errata sheet for direct testimony of Jonathan F. Schaefer; and
- Errata sheet for FMPA Need for Power Application, Exhibit No. (FMPA-1)

I also have included a diskette containing electronic versions of the documents. Copies of the documents have been provided to the persons on the attached certificate of service.

int?	2	the enclosed extra copy of this filing. If you have any questions	
OM.	5 regarding this filing, please giv	70 me a can at 425 2557.	
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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that true and correct copies of Florida Municipal Power Agency's Errata Sheets for the Direct Testimony of Richard L. Casey, Myron R. Rollins and Jonathan F. Schaefer, and the Errata Sheet for Exhibit No. __ (FMPA-1) have been furnished by e-mail and U.S. Mail, postage pre-paid to the following this _____ day of July, 2005:

Martha Carter Brown Staff Counsel Florida Public Service Commission 2520 Shumard Oak Boulevard Tallahassee, FL 32399-0850

Brian D. O'Neill LeBoef, Lamb, Greene & McRae, LLP 1875 Connecticut Avenue, N.W. Washington, D.C. 20009-5715

DIRECT TESTIMONY OF RICHARD L. CASEY

Page	Line	Correction					
7	2	Insert "and planned unit retirements" after "units."					
7	21	Insert "The expansion plan has been updated to reflect the planned retirement of Kissimmee Utility Authority's (KUA) Hansel diesel generating units (16 MW) in October 1, 2005."					
8	1	Insert "Q. How does the City of Vero Beach's December 9, 2004 "Notice of Establishment of Contract Rate of Delivery" affect the expansion plan for the All-Requirements Project? A. This notice has been incorporated into the All-Requirements Project's (ARP) expansion plan, effective January 1, 2010."					
10	6	Replace "11.2 percent" with "10.1 percent" and replace "58 MW" with "74 MW"					
10	7	Replace lines 7 through 9 after the word "increase" with "with a slight decrease in 2011/12 from a forecasted capacity addition, but the deficit is still 3 MW. After this decrease, the deficit continues to increase. Summer reserve"					
10	11	Replace "12 percent" with "10.9 percent" and replace "86 MW" with "102 MW"					
11	ĺ	Insert "base case" before "evaluations."					
11	18	Replace "it" with "its"					
17	1	Replace Table 2-5 in Exhibit No. RLC-2 with Revised Table 2-5					

DIRECT TESTIMONY OF MYRON R ROLLINS

Page	Line	Correction				
11	9	Starting clause beginning with "none" replace the remainder of				
		the sentence with "the evaluation includes the planned 16 MW				
		retirement of KUA's Hansel diesel units in October, 2005."				
11	10	Replace "some of these" with "additional"				
13	21	Replace "\$23 million" with "nearly \$70 million"				
14	6	Replace "\$14 million" with "nearly \$3.5 million"				
14	8	Replace "\$279 million" with "nearly \$295 million"				
14	10	Insert "The results I just described reflect an updated analysis				
		that accounts for the potential impact of the City of Vero				
		Beach's December 9, 2004 'Notice of Establishment of				
		Contract Rate of Delivery."				
15	24	Replace "\$0.5 million" with "\$12.2 million"				
16	9	Insert "The results I just described reflect an updated analysis				
		that accounts for the potential impact of the City of Vero				
		Beach's December 9, 2004 "Notice of Establishment of				
		Contract Rate of Delivery."				
18	3	Replace "\$23.1 million" with "approximately \$70 million"				

DIRECT TESTIMONY OF JONATHAN F. SCHAEFER

Page	Line	Correction
3	15	Replace that question: "What were the results of the forecast for the All-Requirements Project's energy and demand?" with "Please summarize the All-Requirements Project's forecasted energy and demand."
3	17	Insert the following at the beginning of the sentence: "Taking into account an estimated Contract Rate of Delivery for the City of Vero Beach,"
3	18	Replace "10,916" with "9,683"
3	19	Replace "2014" with"2009"
3	19	Replace "2015" with "2010"
3	20	Beginning with the sentence "The winter peak demand" replace the remainder of the paragraph with "The winter peak demand is expected to grow from 1,413.7 MW in 2005 to 1,877.0 MW in 2024 at an average annual growth rate of 2.5 percent from 2005-2009, and an average annual growth rate of 2.2 percent from 2010 through 2024. The summer peak demand is expected to grow from 1,407.1 MW in 2005 to 1,927.0 MW in 2024 at an average annual growth rate of 2.5 percent from 2005-2009, and an average annual growth rate of 2.2 percent from 2010 through 2024."

NEED FOR POWER APPLICATION - Exhibit No. __ (FMPA-1)

TREASURE COAST ENERGY CENTER UNIT 1

Witness	Page	Paragraph	Line	Correction		
RLC	1-1	4	2	Replace "2.32 percent" with "1.50 percent"		
RLC	1-3	3	14	Replace "\$23.1 million" with "\$69.8 million"		
RLC	1-3	3	15	Replace "two LM6000" with "an LM6000 and a		
		1		7EA", replace "turbines" with "turbine"		
RLC	1-3	3	17	Replace "\$14.2 million" with "at least \$3.5 million"		
RLC	1-4	1	7	Replace "\$279.2 million" with "\$294.7 million"		
RLC	1-5	2	3	Replace "\$23.1 million" with "69.8 million"		
RLC	2-4	6	4	Insert "On December 9, 2004 Vero Beach submitted		
				its 'Notice of Establishment of Contract Rate of		
				Delivery' which becomes effective January 1, 2010"		
RLC	2-7			Replace "35.521" with "32.521" in the last row in		
				column three of Table 2-2		
RLC	2-9			Replace Table 2-5 with the attached Revised Table 2-5		
RLC	2-14	2	3	Replace "However, no unit retirements are" with		
				"However, the only unit retirements" and insert "are		
				the Hansel diesel units (16 MW) assumed to retire		
				October 1, 2005." Following "application"		
RLC	2-14	2	3	Insert "additional" after "If"		
RLC	2-15			Replace Table 2-8 with attached Revised Table 2-8		
JFS	3-2	4	3	Replace "2.4 percent" with "2.5 percent", replace		
· ·				"2013" with "2009", and replace "through 2023" with "from 2005 to 2024"		
TEC	2.6	1		"from 2005 to2024"		
JFS	3-6	1	3	Replace "2014" with "2009" and insert "from 2010"		
TEC	3-7			following "percent" Parlage Table 2.2 with attached Paying Table 2.2		
JFS	3-7		 	Replace Table 3-2 with attached Revised Table 3-2		
JFS				Replace Table 3-3 with attached Revised Table 3-3		
JFS	3-10 4-2	3	7	Replace Table 3-4 with attached Revised Table 3-4		
RLC	4-2)	/	Replace "no firm system retirements have been		
				assumed." with "only KUA's Hansel diesel units have		
RLC	4-2	3		been assumed to retire (16 MW)."		
KLC	4-2	3		Insert new paragraph reading "It has also been assumed that the City of Vero Beach's (COVB)'s		
				recent 'Notice of Establishment of Contract Rate of		
				Delivery' submitted to FMPA December 9, 2004		
				reduces the forecast ARP summer peak demand by		
				COVB's forecast summer peak while decreasing the		
				ARP's summer generating capability by 198 MW		
				(COVB's generation committed to the ARP). For the		
				1 (00 12 5 generation committed to the rife). For the		

				winter, forecast ARP peak demands are decreased by COVB's forecast winter peak demand while decreasing the ARP's winter generating capability by 203 MW (COVB's winter generation committed to the ARP) with the difference between COVB peak demand for the December, 2008 through November, 2009 period (207.5 MW), or 4.5 MW, determined as the Contract Rate of Delivery (CROD). The methodology used to determine CROD is consistent with the manner specified in Section 3 of the All-Requirements Power Supply Contract (Contract) dated October 1, 1996, as amended by Amendment No. 1 dated January 22, 1999. Section 3 of the amended Contract explains that CROD is equal to the peak demand of the Participant for capacity and energy during the 12 months preceding the date that is one month prior to the effectiveness of CROD, subject to adjustment at the sole discretion of FMPA, up or down by not more than a 15 percent reserve margin (with the stipulation that CROD, once reduced by the Participant's generating resources or certain other resources, cannot be a negative number). Five years notice is required for a Participant to establish CROD, which then becomes effective on the corresponding
				January 1, resulting in the assumed January 1, 2010 effective date for this analysis."
RLC	4-3	1	2	Insert "given consideration of COVB's CROD, as previously explained." after "period."
RLC	4-3	3	4	Replace "11.2 percent" with "10.1 percent" and replace "58 MW" with "74 MW"
RLC	4-3	3	5	Replace "2" with "two" and replace "243 MW" with "215 MW"
RLC	4-4			Replace Table 4-2 with attached Revised Table 4-2
RLC	4-5			Replace Table 4-3 with attached Revised Table 4-3
RLC	4-6	1	1	Replace "39 MW" with "3 MW"
RLC	4-6	2	3	Replace "12.0 percent" with "10.9 percent" and replaced "an 86 MW" with "a 102 MW"
RLC	4-6	2	4	Replace "2" with "two" and replaced "277 MW" with "282 MW"
RLC	4-6	2	7	Replace "101 MW" with "102 MW"
MRR	9-2	4	3	Insert "(incorporating the City of Vero Beach's December 9, 2004 'Notice of Establishment of Contract Rate of Delivery' described in Section 4.0)" after "forecast"
MRR	9-4	1	1	Replace "no retirements of existing units are assumed" with "KUA's Hansel diesel units are assumed to retire October 1, 2005,"

MRR	9-4	3	2			
MRR	9-4	3	Insert "an" before "LM6000", replace "turbines" v			
				"turbine", and delete "2014 and"		
MRR	9-5	1	6	Replace "\$5,076.31 million" with "\$4,618.33 million"		
MRR	9-5	2	4	Replace "two" with "an" and insert "and a 7EA"		
				following "LM6000"		
MRR	9-5	2	5	Replace "turbines" with "turbine"		
MRR	9-5	2	8	Replace "\$5,099.39 million" with "\$4,688.17 million"		
				and replace "\$23.1 million" with "\$69.8 million"		
MRR	9-5	3	6	and replace "\$23.1 million" with "\$69.8 million" Insert "an" before "LM6000" and replace "turbines"		
				with "turbine"		
MRR	9-5	3	7	Delete "2014 and"		
MRR	9-5	4	10	Replace "\$5,100.22 million" with "\$4,634.18 million"		
MRR	9-5	4	11	Replace "\$23.9 million" with "\$15.9 million"		
MRR	9-6			Replace Table 9-1 with the attached Revised Table 9-1		
MRR	9-7	1	2	Replace "\$5,187.50 million" with \$4,718.30 million"		
				and replace "\$111.2 million" with "approximately		
				\$100 million"		
MRR	9-7	2	4	Replace "at" with "after"		
MRR	9-7	2	5	Replace "two" with "an", replace "turbines" with		
				"turbine", and insert "in 2015" after "selected"		
MRR	9-7	2	6	Replace "a 1x1 combined cycle in 2022" with		
				"LM6000 combustion turbines in 2023 and 2024"		
MRR	9-7	2	10	Replace "\$5,090.50 million" with "\$4,621.79 million"		
MRR	9-7	2	11	Replace "\$14.2 million" with "\$3.5 million"		
MRR	9-7	2	14	Replace "\$5,355.49 million" with "\$4,913.06 million"		
				and replace "\$279.2 million" with "\$294.7 million"		
MRR	9-7	4	4	Replace "2013" with "2014" and "at" with "after"		
MRR	9-7	4	5	Replace "LM6000" with a "7EA", replace "turbines		
				are" with "turbine is", and delete "2014 and"		
MRR	9-7	4	7	Replace "2022" with "2023"		
MRR	9-8	1	7	Replace "\$5,329.62 million" with "\$231.6 million"		
MRR	9-8	2	6	Replaced "a two" with "three"		
MRR	9-8	2	7	Replace "2017" with "2019"		
MRR	9-8	2	9	Delete "followed by a 1x1 combined cycle in 2022"		
MRR	9-8	3	8	Replace "\$5,267.05 million" with "\$4,858.38 million"		
MRR	9-8	3	9	Replace"\$5,306.16 million" with"\$4,879.49 million",		
				replace "\$190.7 million" with "\$240.1 million", and		
				replace "\$229.8 million" with \$279.2 million"		
MRR	9-8	4	6	Replace "two LM6000 simple cycle combustion		
				turbines." with "an LM6000 and a 7EA simple cycle		
ļ				combustion turbine."		
MRR	9-9	1 [2	Replace "Capacity is not needed again until 2024, at		
; ;				which time FMPA's 250 MW share of an 800 MW		
				supercritical pulverized coal unit is selected." with		
				"The 635 MW proposed by Bidder C in conjunction		

	·			with the LM6000 and 7EA simple cycle combustion			
	2.0			turbines satisfies capacity requirements through 2024."			
MRR	9-9	2	7	Replace "\$5,382.10 million" with "\$4,938.08 million"			
MRR	9-9	2	8	Replace "\$5,429.50 million" with "\$4,985.48 million",			
				replace "\$305.8" million with "\$319.7 million", and			
3 (5.5				replace "\$353.2 million" with "\$367.1 million"			
MRR	9-9	3	4	Replace "\$23.1 million" with "\$69.8 million"			
MRR	9-9	3	6	Replace "\$14.2 million" with "\$3.5 million"			
MRR	9-10			Replace Table 9-2 with the attached Revised Table 9-2.			
MRR	10-1	2	5	Insert "an" before "LM6000"			
MRR	10-1	2	6	Replace "turbines" with "turbine" and delete "2014 and"			
MRR	10-1	2	7	Replace "\$5,889.35 million" with "\$5,332.36 million"			
MRR	10-1	2	9	Replace "\$14.0 million" with "\$4.8 million"			
MRR	10-1	2	11	Replace "two" with "an" and replace "turbines" with			
				"turbine"			
MRR	10-1	2	12	Replace "a 1x1 7FA combined cycle in 2023" with			
				"LM6000 simple cycle combustion turbines in 2023			
				and 2024"			
MRR	10-1	2	13	Replace "\$5,903.32 million" with "\$5,337.13 million"			
MRR	10-1	3	5	Insert "an" before "LM6000"			
MRR	10-1	3	6	Replace "turbines" with "turbine" and delete "2014			
				and"			
MRR	10-1	3	7	Replace "a 7FA" with "LM6000", replace "turbine"			
				with "turbines", and insert "2023, and 2024" after			
	10.4			"2022,"			
MRR	10-1	3	7	Replace "\$4,415.70 million" with "\$4,043.75 million"			
MRR	10-4	1	1	Replace "\$18.0 million lower" with "\$4.6 million			
1 (DD	10.4	•		higher"			
MRR	10-4	1	3	Replace "two" with "an" and replace "turbines" with			
MDD	10.4	1		"turbine"			
MRR	10-4	1	4	Insert "and" before "LM6000"			
MRR	10-4	1	5	Delete "and a 7EA simple cycle combustion turbine in 2024"			
MRR	10-4	1	6	Replace "\$4,433.72 million" with "\$4,039.18 million"			
MRR	10-4	4	3	Replace "LM6000" with "a 7EA" and replace			
				"turbines" with "turbine"			
MRR	10-4	4	4	Delete "2010," and "and 2015,"			
MRR	10-4	4	5	Replace "\$5,554.21 million" with "\$5,079.94 million"			
MRR	10-4	4	7	Replace "\$22.9 million" with "\$18.6 million"			
MRR	10-4	4	10	Replace "2014" with 2015" and "a 7EA simple cycle			
				combustion turbine in 2015"			
MRR	10-5			Replace Table 10-3 with the attached Revised Table 10-3			

MRR	10-6			Replace Table 10-4 with the attached Revised Table 10-4	
MRR	10-7	1	2	Replace "2021" with "2022" and replace "\$5,577.07 million" with "\$5,081.80 million"	
MRR	10-7	4	3	Insert comma after "2017", delete "and a 1x1 7FA combined cycle in 2023,"	
MRR	10-7	4	4	Replace "\$4,656.17 million" with "\$4,249.12 million"	
MRR	10-7	4	5	Replace "\$12.0 million" with "\$44.6 million"	
MRR	10-7	4	8	Replace "2017" with "2019," and delete "and a 1x1 7FA combined cycle in 2024,"	
MRR	10-7	4	9	Replace "\$4,668.12" million with "\$4,293.76 million"	
MRR	10-8			Replace Table 10-5 with attached Revised Table 10-5	
MRR	10-9			Replace Table 10-6 with attached Revised Table 10-6	
MRR	10-10	1	3	Insert "an" before "LM6000", replace "turbines" with "turbine", and delete "2014 and"	
MRR	10-10	1	4	Replace "a 1x1 7FA combined cycle in 2022" with "LM6000 simple cycle combustion turbines in 2022, 2023, and 2024"	
MRR	10-10	1	5	Replace "\$5,113.5 million" with "\$4,649.99 million"	
MRR	10-10	1	6	Replace "\$0.5 million" with "\$12.2 million"	
MRR	10-10	1	8	Replace "two" with "an" and replace "turbines" with "turbine"	
MRR	10-10	1	9	Replace "a 1x1 7FA combined cycle in 2022" with "LM6000 simple cycle combustion turbines in 2023 and 2024"	
MRR	10-10	1	10	Replace "\$5,133.07 million" with \$4,637.80 million"	
MRR	10-10	2	4	Insert "an" before "LM6000", replace "turbines" with "turbine", and delete "2014 and"	
MRR	10-10	2	6	Replace "\$5,034.08 million" with "\$4,582.79 million"	
MRR	10-10	2	7	Replace "\$28.9 million" with "\$23.0 million"	
MRR	10-10	2	9	Replace "two" with "an" and replace "turbines" with "turbine"	
MRR	10-10	2	10	Replace "a 1x1 7FA combined cycle in 2022" with LM6000 simple cycle combustion turbines in 2023 and 2024"	
MRR	10-10	2	11	Replace "\$5,067.94 million" with "\$4,605.78 million"	
MRR	10-10	3	6	Insert "a" before "LM6000"	
MRR	10-10	3	7	Replace "turbines" with "turbine" and delete "2014 and"	
MRR	10-10	3	9	Replace "\$3,958.96 million" with "\$3,631.24 million"	
MRR	10-10	3	10	Replace "11.6 million" with "4.5 million"	
MRR	10-10	3	12	Replace "two" with "an" and replace "turbines" with "turbine"	

MRR	10-11	1	1	Replace "a 1x1 7FA combined cycle in 2022" with "LM6000 simple cycle combustion turbines in 2023 and 2024"	
MRR	10-11	1	2	Replace "\$3,970.60 million" with "\$3.635.73 million"	
MRR	10-11	2	3	Insert "and low fuel price" after "cost" and replace	
				"scenario" with "scenarios"	
MRR	10-12			Replace Table 10-7 with attached Revised Table 10-7	
MRR	15-1	2	8	Replace "\$23.1 million" with "\$69.8 million"	
MRR	15-1	3	9	Replace "\$23.9 million" with "\$15.9 million"	
MRR	15-1	3	12	Replace "\$14.2million" with "\$3.5 million"	
MRR	Appendix			Replace entire Appendix E with attached Revised	
	E			Appendix E	

Revised Table 2-5 ARP's Existing Resource Capacity

					· Carrie 100			
	Existing Summer Rating							
Generating Resources	2005	2006	2007	2008	2009	2010	2011- 2012	2013- 2024
Excluded Resources (Nuclear) 1	83	83	83	83	83	72	72	72
Stanton Coal Plant1	220	220	220	220	220	183	183	183
Stanton CC Unit A ²	127	127	127	127	127	127	127	127
Cane Island 1-3	379	379	379	379	379	379	379	379
Indian River CTs	80	80	80	80	80	80	80	80
Key West Units 2&3	36	36	36	36	36	36	36	36
Ft. Pierce Native Generation	118	118	118	118	118	118	118	118
Key West Native Generation	50	50	50	50	50	50	50	50
Kissimmee Native Generation ³	61	45	45	45	45	45	45	45
Lake Worth Native Generation	88	88	88	88	88	88	88	88
Vero Beach Native Generation ¹	150	150	150	150	150	0	0	0
Total Generating Capacity	1,392	1,376	1,376	1,376	1,376	1,178	1,178	1,178
Purchased Power								
PEF Partial Requirements	30	40	0	20	0	25	0	0
FPL Partial Requirements	75	75	75	0	0	0	0	0
FPL Long-Term Partial Requirements	45	45	45	45	45	45	45	0
OUC Indian River Purchase	43	22	0	0	0	0	0	0
Starke (GRU)	3	3	0	0	0	0	0	0
Lakeland Purchase	100	100	100	0	О	0	0	0
Calpine Purchase	35	75	100	100	100	0	0	0
Total Purchased Power	331	360	320	165	145	70	45	0
Resources	1.723							
Total Resources	1,725	1,736	1,696	1,535	1,521	1,248	1,223	1,178

¹Relects the City of Vero Beach's December 9, 2004 "Notice of Establishment of Contract Rate of Delivery," effective January 1, 2010 as described in Section 4.

²Includes capacity purchased from Stanton CC Unit A.

³Reflects retirement of Hansel diesel units (16 MW) effective October 1, 2005

Revised Table 2-8						
Possible Unit Retirements by Generating Member						
Year Capacity (MW) Current Age						
Fort Pierce						
King Diesels 1-2	5.0	35 years				
King 7	32.0	41 years				
King 8	50.0	28 years				
King 5/9 CC	31.0	52/14 years				
Total Fort Pierce	118.0					
Keys Energy						
Big Pine Key	2.5	36 years				
Cudjoe Key	4.5	36 years				
Total Keys Energy	7.0					
Kissimmee						
Hansel CC	45.0	21 years				
Total Kissimmee	45.0					
Lake Worth						
Smith Diesels 1-5	10.0	39 years				
Smith GT 1	26.0	28 years				
Smith 3	22.0	37 years				
Smith 2/5 CC	30.0	27 years				
Total Lake Worth	88.0					
Vero Beach						
Vero 1	12.0	43 years				
Vero 3	34.0	33 years				
Vero 4	56.0	28 years				
Vero 2/5 CC	48.0	41/13 years				
Total Vero Beach	150.0					
Total Capacity	408.0					

	Revised Table 3-2 Base Demand and Energy Forecast										
Year	Winter Peak (MW)	Summer Peak (MW)	Net Energy For Load (GWh)								
2005	1,413.7	1,407.1	7,069								
2006	1,451.5	1,444.5	7,262								
2007	1,482.9	1,476.4	7,419								
2008	1,515.0	1,509.2	7,586								
2009	1,562.2	1,553.8	7,810								
2010	1,389.3	1,414.0	7,125								
2011	1,421.5	1,448.0	7,297								
2012	1,454.4	1,482.9	7,473								
2013	1,488.9	1,519.3	7,656								
2014	1,522.3	1,554.7	7,831								
2015	1,556.3	1,590.5	8,012								
2016	1,591.8	1,627.9	8,199								
2017	1,627.5	1,665.4	8,385								
2018	1,662.9	1,702.5	8,570								
2019	1,697.9	1,739.3	8,752								
2020	1,732.8	1,775.9	8,935								
2021	1,768.2	1,813.0	9,119								
2022	1,803.9	1,850.4	9,305								
2023	1,839.9	1,888.1	9,492								
2024	1,876.7	1,926.6	9,683								

		d Table 3-3 and Energy Forecast	, , , , , , , , , , , , , , , , , , ,
Year	Winter Peak (MW)	Summer Peak (MW)	Net Energy (GWh)
2005	1,498.4	1,490.4	7,489
2006	1,539.2	1,530.7	7,697
2007	1,572.8	1,564.8	7,865
2008	1,607.2	1,599.9	8,045
2009	1,657.8	1,647.7	8,285
2010	1,487.0	1,498.8	7,613
2011	1,521.5	1,535.2	7,798
2012	1,556.8	1,572.6	7,987
2013	1,593.8	1,611.7	8,184
2014	1,629.9	1,649.9	8,374
2015	1,666.7	1,688.6	8,570
2016	1,705.1	1,729.0	8,772
2017	1,743.8	1,769.6	8,975
2018	1,782.2	1,809.9	9,176
2019	1,820.3	1,849.8	9,374
2020	1,858.3	1,889.7	9,573
2021	1,896.8	1,930.1	9,775
2022	1,935.7	1,970.7	9,977
2023	1,975.0	2,011.8	10,182
2024	2,015.1	2,053.7	10,391

	Revised Table 3-4 Low Demand and Energy Forecast										
Year	Winter Peak (MW)	Summer Peak (MW)	Net Energy (GWh)								
2005	1,329.7	1,324.6	6,652								
2006	1,364.6	1,359.1	6,830								
2007	1,393.8	1,388.8	6,976								
2008	1,423.6	1,419.2	7,131								
2009	1,467.4	1,460.6	7,339								
2010	1,301.6	1,329.9	6,681								
2011	1,331.5	1,361.5	6,840								
2012	1,362.1	1,393.9	7,003								
2013	1,394.0	1,427.7	7,172								
2014	1,424.9	1,460.3	7,333								
2015	1,456.1	1,493.3	7,499								
2016	1,488.7	1,527.6	7,670								
2017	1,521.4	1,562.0	7,840								
2018	1,553.8	1,596.1	8,009								
2019	1,585.7	1,629.7	8,175								
2020	1,617.6	1,663.2	8,341								
2021	1,649.9	1,697.1	8,509								
2022	1,682.4	1,731.2	8,677								
2023	1,715.3	1,765.5	8,847								
2024	1,748.8	1,800.6	9,021								

Revised Table 4-2 Projected Reliability Levels - Winter/Base Case

	<u> </u>						System Pe	ak Demand	Reserve	Margin ³		cit) to Maintain erve Margin
Year	Net Generating Capacity (MW)	Non-Partial Requirements Purchases (MW)	Partial Requirements Purchases	Net Firm Planned Capacity Retirements ¹ (MW)	Net Firm Capacity Additions ² (MW)	Net System Capacity (MW)	Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)	Before Interruptible and Load Management (%)	After Interruptible and Load Management (%)	Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)
2004/05	1,343	251	150	0	0	1,744	1,414	1,414	26.1%	26.1%	141	141
2005/06	1,343	305	160	(16)	0	1,792	1,452	1,452	26.4%	26.4%	147	147
2006/07	1,343	305	120	(16)	42	1,794	1,483	1,483	22.8%	22.8%	107	107
2007/08	1,343	205	65	(16)	139	1,736	1,515	1,515	15.2%	15.2%	3	3
2008/09	1,343	205	45	(16)	139	1,716	1,562	1,562	10.1%	10.1%	(74)	(74)
2009/10	1,140	105	70	(16)	139	1,438	1,389	1,389	3.7%	3.7%	(149)	(149)
2010/11	1,140	105	45	(16)	139	1,413	1,421	1,421	-0.6%	-0.6%	(215)	(215)
2011/12	1,140	105	45	(16)	389	1,663	1,454	1,454	14.8%	14.8%	(3)	(3)
2012/13	1,140	105	45	(16)	389	1,663	1,489	1,489	12.1%	12.1%	(42)	(42)
2013/14	1,140	105	0	(16)	389	1,618	1,522	1,522	6.3%	6.3%	(133)	(133)
2014/15	1,140	105	0	(16)	389	1,618	1,556	1,556	4.0%	4.0%	(172)	(172)
2015/16	1,140	105	0	(16)	389	1,618	1,592	1,592	1.6%	1.6%	(213)	(213)
2016/17	1,140	105	0	(16)	389	1,618	1,627	1,627	-0.6%	-0.6%	(254)	(254)
2017/18	1,140	105	0	(16)	431	1,660	1,663	1,663	-0.2%	-0.2%	(252)	(252)
2018/19	1,140	105	0	(16)	431	1,660	1,698	1,698	-2.2%	-2.2%	(293)	(293)
2019/20	1,140	105	0	(16)	431	1,660	1,733	1,733	-4.2%	-4.2%	(333)	(333)
2020/21	1,140	105	0	(16)	431	1,660	1,768	1,768	-6.1%	-6.1%	(373)	(373)
2021/22	1,140	105	0	(16)	431	1,660	1,804	1,804	-8.0%	-8.0%	(414)	(414)
2022/23	1,140	105	0	(16)	431	1,660	1,840	1,840	-9.8%	-9.8%	(456)	(456)
2023/24	1,140	105	0	(16)	431	1,660	1,877	1,877	-11.5%	-11.5%	(498)	(498)

Reflects retirement of KUA's Hansel diesel units (16 MW) effective October 1, 2005.

Firm capacity additions include Stock Island Combustion Turbine Unit 4 on line in January 2006, and 250 MW of a joint development coal plant in 2011. Also includes two LM6000 CTs in December 2007, and Stock Island Combustion Turbine Unit 5 in January 2018 to meet on-island capacity reserve requirements.

Reserve margin calculated as described in Subsection 4.1.1.

Revised Table 4-3 Projected Reliability Levels - Summer/Base Case

							System Pe	ak Demand	Reserve	Margin ³		it) to Maintain ve Margin
Year	Net Generating Capacity (MW)	Non-Partial Requirements Purchases (MW)	Partial Requirements Purchases	Net Firm Planned Capacity Retirements ^t (MW)	Net Firm Capacity Additions ² (MW)	Net System Capacity (MW)	Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)	Before Interruptible and Load Management (%)	After Interruptible and Load Management (%)	Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)
2004	1,287	273	140	0	0	1,700	1,414	1,414	22.4%	22.4%	57	57
2005	1,287	286	150	0	0	1,723	1,407	1,407	25.1%	25.1%	90	90
2006	1,287	305	160	(16)	42	1,778	1,445	1,445	26.0%	26.0%	102	102
2007	1,287	305	120	(16)	42	1,738	1,476	1,476	19.3%	19.3%	17	17
2008	1,287	205	65	(16)	126	1,667	1,509	1,509	10.9%	10.9%	(102)	(102)
2009	1,287	205	45	(16)	126	1,647	1,554	1,554	6.2%	6.2%	(178)	(178)
2010	1,089	105	70	(16)	126	1,374	1,414	1,414	-3.0%	-3.0%	(282)	(282)
2011	1,089	105	45	(16)	376	1,599	1,448	1,448	10.8%	10.8%	(102)	(102)
2012	1,089	105	45	(16)	376	1,599	1,483	1,483	8.1%	8.1%	(143)	(143)
2013	1,089	105	. 0	(16)	376	1,554	1,519	1,519	2.3%	2.3%	(239)	(239)
2014	1,089	105	0	(16)	376	1,554	1,555	1,555	0.0%	0.0%	(281)	(281)
2015	1,089	105	0	(16)	376	1,554	1,591	1,591	-2.3%	-2.3%	(323)	(323)
2016	1,089	105	0	(16)	376	1,554	1,628	1,628	-4.5%	-4.5%	(367)	(367)
2017	1,089	105	0	(16)	376	1,554	1,665	1,665	-6.7%	-6.7%	(411)	(411)
2018	1,089	105	0	(16)	418	1,596	1,703	1,703	-6.3%	-6.3%	(413)	(413)
2019	1,089	105	0	(16)	418	1,596	1,739	1,739	-8.2%	-8.2%	(456)	(456)
2020	1,089	105	0	(16)	418	1,596	1,776	1,776	-10.1%	-10.1%	(500)	(500)
2021	1,089	105	0	(16)	418	1,596	1,813	1,813	-12.0%	-12.0%	(543)	(543)
2022	1,089	105	0	(16)	418	1,596	1,850	1,850	-13.7%	-13.7%	(587)	(587)
2023	1,089	105	0	(16)	418	1,596	1,888	1,888	-15.5%	-15.5%	(632)	(632)
2024	1,089	105	0	(16)	418	1,596	1,927	1,927	-17.2%	-17.2%	(677)	(677)

Reflects retirement of KUA's Hansel diesel units (16 MW) effective October 1, 2005.

Firm capacity additions include Stock Island Combustion Turbine Unit 4 on line in January 2006, and 250 MW of a joint development coal plant in 2011. Also includes two LM6000 CTs in December 2007, and Stock Island Combustion Turbine Unit 5 in January 2018 to meet on-island capacity reserve requirements.

Reserve margin calculated as described in Subsection 4.1.1.

Revised Table 9-1 Treasure Coast Energy Center Unit 1 Cumulative Present Worth Cost

			Troubu		· DIIV. 5.	Conto	Onter	Camaic	20170 110.	sent word	Cost			
	Case Descri	ption]	Economic Pa	arameters]	Financial Param	eters	-		1
	Scenario: Sensitivity: Initial Unit Ac	ddition	TCEC NFP Base Case TC TCEC Unit 1	CEC		CPW Discou Capital Esca Base Year fo	slation Rate:	5.0% 2.5% 2005	6	Fixed Charge Ra Interest During C Finance Term (yr Plant Life;	onst.:		7.754% 5.0% 30 30	
			Generation Add	litions				T						
	7	2005	Construction		Year	Installed	Levelized	 						
Unit	Size (MW)	Capital Cost ¹ (\$1,000)	Period (months)	Installed (mm/dd)	Installed (year)	Cost (\$1,000)	Cost (\$1,000)							
TCEC Unit 1 LM6000 Supercritical PC	301 47.5 250	217,672 32,176 315,963	22 8 54	06/01 06/01 06/01	2008 2015 2016	229,711 41,950 442,199	17,812 3,253 34,288							
1X1 7FA	301	177,325	22	06/01	2022	278,702	21,611							
						· .	7		· · · · · · · · · · · · · · · · · · ·					
			roduction Cost					<u> </u>	Car	oital Cost			T	Cumulative
	Fuel and	Γ	70333317 0000			Total		Other	Other	Other	Other	Total	Total	Present
	Energy	08				Production	Unit Capital	Capital	Capital	Capital	Capital	Capital	System	Worth
Year	Cost	Variable	Fixed ²	Start-Up	Shut-Down	Cost			Expenditures	Expenditures	Expenditures	Cost	Cost	Cost
	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
2005	\$250,607	\$45,475	\$0	\$2,626	\$0	\$298,708	\$0	\$0	\$0	\$0	\$0	\$0	\$298,708	\$298,708
2006 2007	\$239,948 \$229,451	\$47,399 \$39,457	\$0 \$0	\$2,664 \$1,772	\$0 \$0	\$290,012 \$270,680	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$290,012	\$574,909
2008	\$245,841	\$31,267	\$5,479	\$1,580	\$0	\$284,167	\$17,812	\$0	\$0	\$0	\$0	\$10,390	\$270,680 \$294,557	\$820,424 \$1,074,873
2009	\$257,316	\$33,433	\$12,392	\$1,533	\$0	\$304,674	\$17,812	\$0	\$0	\$0	\$0	\$17,812	\$322,486	\$1,074,073
2010	\$248,435	\$33,122	\$12,442	\$1,720	\$0	\$295,719	\$17,812	\$0	\$0	\$0	\$0	\$17,812	\$313,531	\$1,585,843
2011	\$234,715	\$33,146	\$12,494	\$2,100	\$0	\$282,455	\$17,812	\$0	\$0	\$0	\$0	\$17,812	\$300,267	\$1,809,907
2012	\$235,889	\$32,828	\$12,547	\$1,484	\$0	\$282,747	\$17,812	\$0	\$0	\$0	\$0	\$17,812	\$300,559	\$2,023,508
2013	\$257,974	\$29,873	\$12,601	\$1,611	\$0	\$302,059	\$17,812	\$0	\$0	\$0	\$0	\$17,812	\$319,871	\$2,240,010
2014 2015	\$276,728	\$27,795	\$12,656	\$1,856	\$ 0	\$319,035	\$17,812	\$0	\$0	\$0	\$0	\$17,812	\$336,847	\$2,457,144
2016	\$298,740 \$284,262	\$29,186 \$27,723	\$13 357 \$16 124	\$1,814 \$1,670	\$0 \$0	\$343,097 \$329,778	\$21,065 \$55,353	\$0 \$0	\$0	\$0 *0	\$0	\$19,709	\$362,806	\$2,679,876
2017	\$285,261	\$27,232	\$17,879	\$1,870	\$0	\$329,778	\$55,353 \$55,353	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$41,066 \$55,353	\$370,844	\$2,896,701
2017	\$299,310	\$28,695	\$18,066	\$1,509	\$0	\$347,713	\$55,353	\$0	\$0	\$0	\$0 \$0	\$55,353 \$55,353	\$387,094 \$403,066	\$3,112,249 \$3,326,004
2019	\$319,343	\$30,187	\$18,258	\$1,752	\$0	\$369,540	\$55,353	\$0	\$0	\$0	\$0	\$55,353	\$424,892	\$3,540,603
2020	\$341,990	\$31,629	\$18,455	\$1,651	\$0	\$393,724	\$55,353	\$0	\$0	\$0	\$0	\$55,353	\$449,077	\$3,756,617
2021	\$358,579	\$33,258	\$18,657	\$2,065	\$0	\$412,559	\$55,353	\$0	\$0	\$0	\$0	\$55,353	\$467,912	\$3,970,973
2022	\$360,734	\$35,196	\$26,479	\$2,428	\$0	\$424,838	\$76,963	\$0	\$0	\$0	\$0	\$67,959	\$492,797	\$4,185,978
2023	\$369,587	\$37,135	\$32,111	\$2,304	\$0	\$441,138	\$76,963	\$0	\$0	\$0	\$0	\$76,963	\$518,102	\$4,401,260
2024	\$398,226	\$38,968	\$32,376	\$1,986	\$0	\$471,557	\$76,963	\$0	\$0	\$0	\$0	\$76,963	\$548,520	\$4,618,328

Notes:
(1) Capital cost for TCEC Unit 1 is presented in as spent dollars for 2008 operation, but does not include interest during construction.
(2) Fixed costs are included only for new unit additions.

Revised Table 9-2 Summary of Capacity Expansion Plan Results

Year	Base Case (TCEC Unit 1)	Second Best Self-Build	Bidder A 5 Year	Bidder A 20 Year	Bidder B	Bidder C 1x1 CC Escalating	Bidder C 1x1 CC Levelized	Bidder C 2x1 CC Escalating	Bidder C 2x1 CC Levelized
2005	(TCEC OIII I)	Sen-Dund	J 1 cai	20 1 Cal	Didder B	Lisealating	Levenzed	Locatating	Ecvenzed
2006									
2007									·
2008	TCEC Unit 1	LM6000	Bidder A,	Bidder A,	Bidder B	3 LM6000s	3 LM6000s	7EA CT	7ЕА СТ
2009		7EA TCEC Unit 1	5 Year	20 Year		Bidder C 1x1	Bidder C 1x1	LM6000 Bidder C 300 MW	LM6000 Bidder C 300 MW
2010								410 MW	410 MW
2011								520 MW	520 MW
2012								635 MW	635 MW
2013			TCEC Unit 1						
2014									
2015	LM6000		LM6000	LM6000	7EA				
2016	250 MW PC	250 MW PC	250 MW PC	250 MW PC	250 MW PC				
2017									
2018									
2019						250 MW PC	250 MW PC		
2020									
2021									
2022	TCEC Unit 2	•	TCEC Unit 2						
2023				LM6000	TCEC Unit 1				
2024		TCEC Unit 2		LM6000					
CPWC \$ 000s	4,618	4,688	4,634	4,622	4,850	4,858	4,897	4,938	4,985
Differential CPWC	Base	70	16 ¹	4 ²	232	240	279	320	367

Increases to \$100 million if interruptible natural gas is not assumed available on a firm basis.
 Increases to \$295 million if interruptible natural gas is not assumed available on a firm basis.
 Notes: Committed units not shown. TCEC Unit 1 is first self-build combined cycle at the site. TCEC Unit 2 is the second self-build combined cycle at the site.

Revised Table 10-3 FMPA Projected Reliability Levels - Summer/High Load and Energy Sensitivity

							System Pea	ak Demand	Reserve	Margin ³	`	it) to Maintain rve Margin
Year	Net Generating Capacity (MW)	Non- Partial Requirements Purchases (MW)	Partial Requirements Purchases (MW)	Net Firm Planned Capacity Retirements (MW)	Net Firm Capacity Additions ² (MW)	Net System Capacity (MW)	Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)	Before Interruptible and Load Management (%)	After Interruptible and Load Management (%)	Before Interruptible and Load Management (MW)	After Interruptible and Load Managemen (MW)
2005	1,287	286	150	0	0	1,723	1,490	1,490	17.4%	17.4%	(9)	(9)
2006	1,287	305	160	(16)	42	1,778	1,531	1,531	18.0%	18.0%	1	1
2007	1,287	305	120	(16)	42	1,738	1,565	1,565	12.0%	12.0%	(87)	(87)
2008	1,287	205	65	(16)	126	1,667	1,600	1,600	4.4%	4.4%	(209)	(209)
2009	1,287	205	45	(16)	126	1,647	1,648	1,648	0.0%	0.0%	(289)	(289)
2010	1,089	105	70	(16)	126	1,374	1,499	1,499	-8.7%	-8.7%	(382)	(382)
2011	1,089	105	45	(16)	376	1,599	1,535	1,535	4.3%	4.3%	(204)	(204)
2012	1,089	105	45	(16)	376	1,599	1,573	1,573	1.7%	1.7%	(249)	(249)
2013	1,089	105	0	(16)	376	1,554	1,612	1,612	-3.6%	-3.6%	(348)	(348)
2014	1,089	105	0	(16)	376	1,554	1,650	1,650	-5.8%	-5.8%	(393)	(393)
2015	1,089	105	0	(16)	376	1,554	1,689	1,689	-8.0%	-8.0%	(439)	(439)
2016	1,089	105	0	(16)	376	1,554	1,729	1,729	-10.1%	-10.1%	(486)	(486)
2017	1,089	105	0	(16)	376	1,554	1,770	1,770	-12.2%	-12.2%	(534)	(534)
2018	1,089	105	0	(16)	418	1,596	1,810	1,810	-11.8%	-11.8%	(540)	(540)
2019	1,089	105	0	(16)	418	1,596	1,850	1,850	-13.7%	-13.7%	(587)	(587)
2020	1,089	105	0	(16)	418	1,596	1,890	1,890	-15.5%	-15.5%	(634)	(634)
2021	1,089	105	0	(16)	418	1,596	1,930	1,930	-17.3%	-17.3%	(681)	(681)
2022	1,089	105	0	(16)	418	1,596	1,971	1,971	-19.0%	-19.0%	(729)	(729)
2023	1,089	105	0	(16)	418	1,596	2,012	2,012	-20.7%	-20.7%	(778)	(778)
2024	1,089	105	0	(16)	418	1,596	2,054	2,054	-22.3%	-22.3%	(827)	(827)

¹Reflects retirement of KUA's Hansel diesel units effective October 1, 2005.
² Firm capacity additions include Stock Island Combustion Turbine Unit 4 on line in January 2006, and 250 MW of a joint development coal plant in 2011. Also includes two LM6000 CTs in December 2007, and Stock Island Combustion Turbine Unit 5 January 2018.

³ Reserve margin calculated as (Net System Capacity - System Peak Demand) / (System Peak Demand - Partial Requirements Purchases).

Revised Table 10-4 FMPA Projected Reliability Levels - Winter/High Load and Energy Sensitivity

	,						System Pe	ak Demand	Reserve	Margin ³	Net Firm Plant Retirements (N	
Year	Net Generating Capacity (MW)	Non-Partial Requirements Purchases (MW)	Partial Requirements Purchases (MW)	Net Firm Planned Capacity Retirements (MW)	Net Firm Capacity Additions ² (MW)	Net System Capacity (MW)	Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)			Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)
2004/05	1,343	251	150	0	0	1,744	1,498	1,498	18.2%	18.2%	43	43
2005/06	1,343	305	160	(16)	0	1,792	1,539	1,539	18.3%	18.3%	46	46
2006/07	1,343	305	120	(16)	42	1,794	1,573	1,573	15.2%	15.2%	3	3
2007/08	1,343	205	65	(16)	139	1,736	1,607	1,607	8.3%	8.3%	(103)	(103)
2008/09	1,343	205	45	(16)	139	1,716	1,658	1,658	3.6%	3.6%	(184)	(184)
2009/10	1,140	105	70	(16)	139	1,438	1,487	1,487	-3.5%	-3.5%	(262)	(262)
2010/11	1,140	105	45	(16)	139	1,413	1,521	1,521	-7.3%	-7.3%	(330)	(330)
2011/12	1,140	105	45	(16)	389	1,663	1,557	1,557	7.0%	7.0%	(121)	(121)
2012/13	1,140	105	45	(16)	389	1,663	1,594	1,594	4.5%	4.5%	(163)	(163)
2013/14	1,140	105	0	(16)	389	1,618	1,630	1,630	-0.7%	-0.7%	(256)	(256)
2014/15	1,140	105	0	(16)	389	1,618	1,667	1,667	-2.9%	-2.9%	(299)	(299)
2015/16	1,140	105	0	(16)	389	1,618	1,705	1,705	-5.1%	-5.1%	(343)	(343)
2016/17	1,140	105	0	(16)	389	1,618	1,744	1,744	-7.2%	-7.2%	(387)	(387)
2017/18	1,140	105	0	(16)	431	1,660	1,782	1,782	-6.9%	-6.9%	(390)	(390)
2018/19	1,140	105	0	(16)	431	1,660	1,820	1,820	-8.8%	-8.8%	(433)	(433)
2019/20	1,140	105	0	(16)	431	1,660	1,858	1,858	-10.7%	-10.7%	(477)	(477)
2020/21	1,140	105	0	(16)	431	1,660	1,897	1,897	-12.5%	-12.5%	(521)	(521)
2021/22	1,140	105	0	(16)	431	1,660	1,936	1,936	-14.2%	-14.2%	(566)	(566)
2022/23	1,140	105	0	(16)	431	1,660	1,975	1,975	-15.9%	-15.9%	(611)	(611)
2023/24	1,140	105	0	(16)	431	1,660	2,015	2,015	-17.6%	-17.6%	(657)	(657)

¹ Reflects retirement of KUA's Hansel diesel units effective October 1, 2005.
² Firm capacity additions include Stock Island Combustion Turbine Unit 4 on line in January 2006, and 250 MW of a joint development coal plant in 2011. Also includes two LM6000 CTs in December 2007, and Stock Island Combustion Turbine Unit 5 January 2018.

³ Reserve margin calculated as (Net System Capacity - System Peak Demand) / (System Peak Demand - Partial Requirements Purchases).

Revised Table 10-5 FMPA Projected Reliability Levels - Summer/Low Load and Energy Sensitivity

							System Pea	ak Demand	Reserve	Margin ³		it) to Maintain rve Margin
Year	Net Generating Capacity (MW)	Non-Partial Requirements Purchases (MW)	Partial Requirements Purchases (MW)	Net Firm Planned Capacity Retirements (MW)	Net Firm Capacity Additions ² (MW)	Net System Capacity (MW)	Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)	Before Interruptible and Load Management (%)	After Interruptible and Load Management (%)	Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)
2005	1,287	286	150	0	0	1,723	1,325	1,325	33.9%	33.9%	187	187
2006	1,287	305	160	(16)	42	1,778	1,359	1,359	34.9%	34.9%	203	203
2007	1,287	305	120	(16)	42	1,738	1,389	1,389	27.5%	27.5%	121	121
2008	1,287	205	65	(16)	126	1,667	1,419	1,419	18.3%	18.3%	4	4
2009	1,287	205	45	(16)	126	1,647	1,461	1,461	13.2%	13.2%	(68)	(68)
2010	1,089	105	70	(16)	126	1,374	1,330	1,330	3.5%	3.5%	(183)	(183)
2011	1,089	105	45	(16)	376	1,599	1,362	1,362	18.0%	18.0%	0	0
2012	1,089	105	45	(16)	376	1,599	1,394	1,394	15.2%	15.2%	(38)	(38)
2013	1,089	105	0	(16)	376	1,554	1,428	1,428	8.8%	8.8%	(131)	(131)
2014	1,089	105	0	(16)	376	1,554	1,460	1,460	6.4%	6.4%	(169)	(169)
2015	1,089	105	0	(16)	376	1,554	1,493	1,493	4.1%	4.1%	(208)	(208)
2016	1,089	105	0	(16)	376	1,554	1,528	1,528	1.7%	1.7%	(249)	(249)
2017	1,089	105	0	(16)	376	1,554	1,562	1,562	-0.5%	-0.5%	(289)	(289)
2018	1,089	105	0	(16)	418	1,596	1,596	1,596	0.0%	0.0%	(287)	(287)
2019	1,089	105	0	(16)	418	1,596	1,630	1,630	-2.1%	-2.1%	(327)	(327)
2020	1,089	105	0	(16)	418	1,596	1,663	1,663	4.0%	-4.0%	(367)	(367)
2021	1,089	105	0	(16)	418	1,596	1,697	1,697	-6.0%	-6.0%	(407)	(407)
2022	1,089	105	0	(16)	418	1,596	1,731	1,731	-7.8%	-7.8%	(447)	(447)
2023	1,089	105	0	(16)	418	1,596	1,766	1,766	-9.6%	-9.6%	(487)	(487)
2024	1,089	105	0	(16)	418	1,596	1,801	1,801	-11.4%	-11.4%	(529)	(529)

¹Reflects retirement of KUA's Hansel diesel units effective October 1, 2005.
²Firm capacity additions include Stock Island Combustion Turbine Unit 4 on line in January 2006, and 250 MW of a joint development coal plant in 2011. Also includes two LM6000 CTs in December 2007, and Stock Island Combustion Turbine Unit 5 January 2018.

³ Reserve margin calculated as (Net System Capacity - System Peak Demand) / (System Peak Demand - Partial Requirements Purchases).

Revised Table 10-6 FMPA Projected Reliability Levels - Winter/Low Load and Energy Sensitivity

				:			System Peak D	emand	Reserve Margi	n ³	Excess/(Deficit 15% Reserve N	
Year	Net Generating Capacity (MW)	Non-Partial Requirements Purchases (MW)	Partial Requirements Purchases (MW)	Net Firm Planned Capacity Retirements ¹ (MW)	Net Firm Capacity Additions ² (MW)	Net System Capacity (MW)	Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)	Before Interruptible and Load Management (%)	After Interruptible and Load Management (%)	Before Interruptible and Load Management (MW)	After Interruptible and Load Management (MW)
2004/05	1,343	251	150	0	0	1,744	1,330	1,330	35.1%	35.1%	237	237
2005/06	1,343	305	160	(16)	0	1,792	1,365	1,365	35.5%	35.5%	247	247
2006/07	1,343	305	120	(16)	42	1,794	1,394	1,394	31.4%	31.4%	209	209
2007/08	1,343	205	65	(16)	139	1,736	1,424	1,424	23.0%	23.0%	109	109
2008/09	1,343	205	45	(16)	139	1,716	1,467	1,467	17.5%	17.5%	35	35
2009/10	1,140	105	70	(16)	139	1,438	1,302	1,302	11.1%	11.1%	(48)	(48)
2010/11	1,140	105	45	(16)	139	1,413	1,332	1,332	6.3%	6.3%	(111)	(Ì1Í)
2011/12	1,140	105	45	(16)	389	1,663	1,362	1,362	22.8%	22.8%	103	103
2012/13	1,140	105	45	(16)	389	1,663	1,394	1,394	19.9%	19.9%	67	67
2013/14	1,140	105	0	(16)	389	1,618	1,425	1,425	13.6%	13.6%	(21)	(21)
2014/15	1,140	105	0	(16)	389	1,618	1,456	1,456	11.1%	11.1%	(57)	(57)
2015/16	1,140	105	0	(16)	389	1,618	1,489	1,489	8.7%	8.7%	(94)	(94)
2016/17	1,140	105	0	(16)	389	1,618	1,521	1,521	6.3%	6.3%	(132)	(132)
2017/18	1,140	105	0	(16)	431	1,660	1,554	1,554	6.8%	6.8%	(127)	(127)
2018/19	1,140	105	0	(16)	431	1,660	1,586	1,586	4.7%	4.7%	(164)	(164)
2019/20	1,140	105	0	(16)	431	1,660	1,618	1,618	2.6%	2.6%	(200)	(200)
2020/21	1,140	105	0	(16)	431	1,660	1,650	1,650	0.6%	0.6%	(237)	(237)
2021/22	1,140	105	0	(16)	431	1,660	1,682	1,682	-1.3%	-1.3%	(275)	(275)
2022/23	1,140	105	0	(16)	431	1,660	1,715	1,715	-3.2%	-3.2%	(313)	(313)
2023/24	1,140	105	0	(16)	431	1,660	1,749	1,749	-5.1%	-5.1%	(351)	(351)

¹Reflects retirement of KUA's Hansel diesel units effective October 1, 2005.

² Firm capacity additions include Stock Island Combustion Turbine Unit 4 on line in January 2006, and 250 MW of a joint development coal plant in 2011. Also includes two LM6000 CTs in December 2007, and Stock Island Combustion Turbine Unit 5 January 2018.

³ Reserve margin calculated as (Net System Capacity - System Peak Demand) / (System Peak Demand - Partial Requirements Purchases).

Revised Table 10-7 Summary of Sensitivity Analyses

	Expansion 1	Plan CPWC Co	ost (\$ million)
Sensitivity Case	TCEC Unit 1	Bidder A	Differential CPWC Savings with TCEC
Base Case	\$4,618.33	\$4,621.79	\$3.46
High Fuel Price	\$5,332.36	\$5,337.13	\$4.77
Low Fuel Price	\$4,043.75	\$4,039.18	-\$4.57
High Load Growth	\$5,079.94	\$5,081.80	\$1.86
Low Load Growth	\$4,249.12	\$4,293.76	\$44.64
High Capital Cost	\$4,649.99	\$4,637.80	-\$12.19
Low Capital Cost	\$4,582.79	\$4,605.78	\$22.99
High Present Worth Discount Rate	\$3,631.24	\$3,635.73	\$4.49

Revised Appendix E
Economic Evaluation Summaries

. TCEC Unit 1 Case Description Economic Parameters Financial Parameters TCEC NFP Scenario: CPW Discount Rate: 5.0% Fixed Charge Rate: 7.754% Sensitivity: Base Case TCEC 2.5% Capital Escalation Rate: Interest During Const.: 5.0% Initial Unit Addition TCEC Unit 1 Base Year for \$ 2005 Finance Term (yrs). 30 30 Generation Additions 2005 Construction | Month/Day Year Installed Levelized Unit Capital Cost³ Size Period Installed Installed Cost Cost (MVV)(\$1,000) (months) (mm/dd) (year) (\$1,000)(\$1,000) TCEC Unit 1 301 217,672 22 06/01 2008 229,711 17,812 LM6000 47.5 32,176 8 06/01 2015 41,950 3.253 Supercritical PC 250 315,963 54 06/01 2016 442,199 34,288 1X1 7FA 301 177,325 22 06/01 2022 278,702 21,611 Production Cost Capital Cost Cumulative Fuel and Total Other Other Other Other Total Total Present Energy M&0 Production Unit Capital Capital Capital Capital Capital Capital Worth System Year Cost Variable Fixed² Start-Up Shut-Down Cost Cost Expenditures Expenditures Expenditures Expenditures Cost Cost Cost (\$1,000)(\$1,000)(\$1,000)(\$1,000)(\$1000)(\$1,000) (\$1,000) (\$1,000) (\$1,000)(\$1,000)(\$1,000) (\$1,000) (\$1,000) (\$1,000)2005 \$250,607 \$45,475 \$0 \$2,626 \$0 \$298,708 \$0 \$0 \$0 \$0 \$0 \$0 \$298,708 \$298,708 2006 \$239,948 \$47,399 \$0 \$2,664 \$0 \$290,012 \$0 \$0 \$0 \$0 \$0 \$0 \$290,012 \$574,909 2007 \$229,451 \$39,457 \$0 \$1,772 \$270,680 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$270,680 \$820,424 2008 \$245,841 \$31,267 \$5,479 \$1,580 \$0 \$284,167 \$17,812 \$0 \$0 \$0 \$0 \$10.390 \$294,557 \$1,074,873 \$1,533 2009 \$257,316 \$33,433 \$12,392 \$304,674 \$17,812 \$0 \$0 \$0 \$0 \$0 \$17.812 \$322,486 \$1,340,183 2010 \$248,435 \$1,720 \$295,719 \$33,122 \$12,442 \$0 \$17.812 \$0 \$0 \$0 \$0 \$17,812 \$313,531 \$1,585,843 2011 \$234,715 \$33,146 \$12,494 \$2,100 \$282,455 \$0 \$17,812 \$0 \$0 \$0 \$0 \$17.812 \$300,267 \$1,809,907 2012 \$235,889 \$32,828 \$12,547 \$1,484 \$0 \$282,747 \$17,812 \$0 \$0 \$0 \$0 \$17,812 \$300,559 \$2,023,508 \$302,059 2013 \$257,974 \$12,601 \$1,611 \$0 \$17,812 \$29,873 \$0 \$0 \$0 \$0 \$17,812 \$319,871 \$2,240,010 2014 \$276,728 \$27,795 \$12,656 \$1,856 \$0 \$319,035 \$17,812 \$0 \$0 \$0 \$0 \$336,847 \$17,812 \$2,457,144 2015 \$298,740 \$29,186 \$13,357 \$1,814 \$0 \$343,097 \$21,065 \$0 \$0 \$0 \$0 \$19,709 \$362,806 \$2,679,876 2016 \$284,262 \$27,723 \$16,124 \$1,670 \$0 \$329,778 \$55,353 \$0 \$0 \$2,896,701 \$0 \$0 \$41,066 \$370.844 \$27,232 \$55,353 2017 \$285,261 \$17,879 \$1,369 \$0 \$331,741 \$0 \$0 \$0 \$0 \$55,353 \$387,094 \$3,112,249 2018 \$28,695 \$1,643 \$347,713 \$299,310 \$18,066 \$0 \$55,353 \$0 \$0 \$0 \$0 \$55,353 \$403,066 \$3,326,004 2019 \$319,343 \$30,187 \$18,258 \$1,752 \$0 \$369,540 \$55,353 \$0 \$0 \$0 \$0 \$424,892 \$55,353 \$3,540,603 2020 \$341,990 \$31,629 \$18,455 \$1,651 \$0 \$393,724 \$55,353 \$0 \$0 \$0 \$0 \$55,353 \$449,077 \$3,756,617 \$33,258 \$18,657 2021 \$358,579 \$2,065 \$0 \$412,559 \$55,353 \$0 \$0 \$0 \$0 \$55,353 \$467,912 \$3,970,973 2022 \$360,734 \$35,196 \$26,479 \$2,428 \$0 \$424,838 \$76,963 \$0 \$0 \$0 \$0 \$67,959 \$492,797 \$4,185,978 2023 \$369.587 \$37,135 \$32,111 \$2,304 \$0 \$441,138 \$76,963 \$0 \$0 \$76,963 \$0 \$0 \$518,102 \$4,401,260

Notes

2024

\$1,986

\$0

\$471,557

\$32,376

\$38,968

\$398,226

\$76,963

\$0

\$0

\$76,963

\$548,520

\$4,618,328

⁽¹⁾ Capital cost for TCEC Unit 1 is presented in as spent dollars for 2008 operation, but does not include interest during construction.

⁽²⁾ Fixed costs are included only for new unit additions.

LM6000 and 7EA 2008

Case Description

Scenario: Sensitivity: Initial Unit Addition TCEC NFP Base Case TCEC LM6000 and 7EA CTs 2008 Economic Parameters

CPW Discount Rate: 5.0%
Capital Escalation Rate: 2.5%
Base Year for \$ 2005

 Financial Parameters
 7.754%

 Fixed Charge Rate:
 5.0%

 Interest During Const.:
 5.0%

 Finance Term (yrs).
 30

 Plant Life:
 30

			Generation A	dditions			
Unit	Size (MW)	2005 Capital Cost (\$1,000)	Construction	Month/Day Installed (mm/dd)	Year Installed (year)	Installed Cost (\$1,000)	Cost (\$1,000)
LM6000	47.5	32,176	8	06/01	2008	35,291	2,736
7EA SC	77.5	43.885	12	06/01	2008	48,327	3,747
TCEC 1x1 7FA Supercritical PC 1X1 7FA	301	217,672	22	06/01	2009	235,454	18,257
	250	315,963	54	06/01	2016	442,199	34,288
	301	177,325	22	06/01	2024	292,812	22,705

			Production Co	st						ital Cost				Cumulative
	Fuel and					Total		Other	Other	Other	Other	Total	Total	Present
1	Energy	0	&M			Production	Unit Capital	Capital	Capital	Capital	Capital	Capital	System	Worth
Year	Cost	Variable	Fixed1	Start-Up	Shut-Down	Cost	Cost	Expenditures		Expenditures	Expenditures	Cost	Cost	Cost
i	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
2005	\$250,607	\$45,475	\$0	\$2,626	\$0	\$298,708	\$0	\$0	\$0	\$0	\$0	\$0	\$298,708	\$298,708
2006	\$239,948	\$47,399	\$0	\$2,664	\$0	\$290,012	\$0	\$0	\$0	\$0	\$0	\$0	\$290,012	\$574,909
2007	\$229,451	\$39,457	\$0	\$1,772	\$0	\$270,680	\$0	\$0	- \$0	\$0	\$0	\$0	\$270,680	\$820,424
2008	\$265,071	\$32,774	\$1,031	\$1,718	\$0	\$300,594	\$6,484	\$0	\$0	\$0	\$0	\$3,782	\$304,376	\$1,083,355
2009	\$266,132	\$34,016	\$7,310	\$1,797	\$0	\$309,255	\$24,741	\$0	\$0	\$0	\$0	\$17,134	\$326,389	\$1,351,876
2010	\$246,980	\$33,277	\$14,290	\$1,605	\$0	\$296,152	\$24,741	\$0	\$0	\$0	\$0	\$24,741	\$320,893	\$1,603,304
2011	\$233,040	\$33,302	\$14,387	\$1,659	\$0	\$282,388	\$24,741	\$0	\$0	\$0	\$0	\$24,741	\$307,128	\$1,832,488
2012	\$242,376	\$33,065	\$14,488	\$1,198	\$0	\$291,127	\$24,741	\$0	\$0	\$0	\$0	\$24,741	\$315,868	\$2,056,969
2013	\$258,564	\$29,857	\$14,590	\$1,498	\$0	\$304,509	\$24,741	\$0	\$0	\$0	\$0	\$24,741	\$329,250	\$2,279,818
2014	\$273,300	\$27,809	\$14,695	\$1,515	\$0	\$317,319	\$24,741	\$0	\$0	\$0	\$0	\$24,741	\$342,060	\$2,500,313
2015	\$297,224	\$29,165	\$14,803	\$1,598	\$0	\$342,790	\$24,741	\$0	\$0	\$0	\$0	\$24,741	\$367,530	\$2,725,945
2016	\$284,483	\$27,820	\$17,141	\$1,700	\$0	\$331,144	\$59,029	\$0	\$0	\$0	\$0	\$44,742	\$375,886	\$2,945,718
2017	\$284,524	\$27,292	\$18,921	\$1,349	\$0	\$332,086	\$59,029	\$0	\$0	\$0	\$0	\$59,029	\$391,115	\$3,163,505
2018	\$299,277	\$28,775	\$19,135	\$1,594	\$0	\$348,780	\$59,029	\$0	\$0	\$0	\$0	\$59,029	\$407,809	\$3,379,775
2019	\$318,744	\$30,279	\$19,354	\$1,825	\$0	\$370,202	\$59,029	\$0	\$0	\$0	\$0	\$59,029	\$429,231	\$3,596,566
2020	\$341,824	\$31,735	\$19,578	\$1,731	\$0	\$394,868	\$59,029	\$0	\$0	* \$0	\$0	\$59,029	\$453,897	\$3,814,898
2021	\$358,058	\$33,441	\$19,808	\$2,070	\$0	\$413,377	\$59,029	\$0	\$0	\$0	\$0	\$59,029	\$472,406	\$4,031,313
2022	\$385,660	\$35,346	\$20,044	\$2,200	\$0	\$443,250	\$59,029	\$0	\$0	\$0	\$0	\$59,029	\$502,279	\$4,250,455
2023	\$414,280	\$37,421	\$20,285	\$2,227	\$0	\$474,214	\$59,029	\$0	\$0	\$ 0	\$0	\$59,029	\$533,243	\$4,472,029
2024	\$404,294	\$38,971	\$28,203	\$2,426	\$0	\$473,894	\$81,734	\$0	\$0	\$0	\$0	\$72,273	\$546,167	\$4,688,166

Notes

⁽¹⁾ Fixed costs are included only for new unit additions.

Bidder A 5-Year Case Description Economic Parameters Financial Parameters TOEC NEP CPW Discount Rate: 5.0% 7 754% Scenario Fixed Charge Rate: Sensitivity Base Case TCEC 2.5% Capital Escalation Rate: Interest During Const.: 5.0% Initial Unit Addition Bidder A 5-Year Base Year for \$ 2005 Finance Term (vrs): 30 Plant Life: 30 Generation Additions 2005 Year Installed Levelized Construction Month/Dav Capital Cost Unit Period Installed Installed Cost Cost Size (MW) (\$1,000) (mm/dd) (\$1.000) (\$1.000) (months) (year) 300 01/01 2008 Bidder A 5-Year 2013 259 897 20 152 1x1 7FA 301 217.672 22 06/01 LM6000 47.5 32 176 8 06/01 2015 41.950 3.253 Supercritical PC 250 315,963 54 06/01 2016 442 199 34.288 1X1 7FA 301 177.325 22 06/01 2022 278,702 21,611 Production Cost Capital Cost Cumulative Total Fuel and Existing Other Other Other Total Total Present Capital M&O Production Unit Capital Bidder A Capital Capital Capital System Worth Energy Fixed1 Contract Savings Expenditures Year Variable Start-Up Shut-Down Cost Cost Expenditures Expenditures Cost Cost Cost Cost (\$1,000) (\$1,000) (\$1000) (\$1,000) (\$1,000)(\$1.000)(\$1,000) (\$1.000)(\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000)2005 \$298,708 \$250,607 \$45,475 \$2,626 \$0 \$0 -\$147 \$0 \$0 \$0 -\$147 \$298,561 \$298,561 \$2.664 -\$459 \$574,325 2006 \$239,948 \$47,399 \$0 \$0 \$290.012 \$0 -\$459 \$0 \$0 \$0 \$289,553 \$270,680 \$269,876 \$819 110 2007 \$229,451 \$39,457 \$0 \$1,772 \$0 \$0 \$804 \$0 \$0 \$0 \$804 2008 \$241,437 \$30,021 \$26,280 \$1.561 \$0 \$299 299 \$0 -\$816 \$0 \$0 \$0 -\$816 \$298,483 \$1,076,951 2009 \$263,964 \$32,491 \$1.494 \$0 \$324,770 \$0 -\$840 \$0 \$0 \$0 -\$840 \$323,930 \$1,343,449 \$26,820 \$0 \$0 \$0 \$0 \$0 \$315,531 \$1,590,676 2010 \$255,039 \$31,359 \$27,360 \$1,774 \$0 \$315,531 \$0 \$0 \$0 \$0 \$0 \$303,926 \$1.817.470 \$1,704 \$0 \$303,926 \$0 2011 \$242,975 \$31,310 \$27,936 \$0 \$0 \$0 \$0 \$0 \$0 \$299,473 \$2,030,300 \$0 \$299,473 \$0 2012 \$238,132 \$31,427 \$28,548 \$1,366 \$11,756 \$2,242,702 \$1,611 \$302.059 \$20.152 \$0 \$0 \$0 \$0 \$313.815 \$257,974 \$29,873 \$12,601 \$0 2013 \$0 \$0 \$20,152 \$339,188 \$2,461,346 \$276,728 \$27,795 \$12,656 \$1,856 \$0 \$319,035 \$20,152 \$0 \$0 2014 \$0 \$22,050 \$365,146 \$2,685,514 \$1,814 \$0 \$343,097 \$23,405 \$0 \$0 \$0 2015 \$298,740 \$29,186 \$13,357 \$1,670 \$329,778 \$57,693 \$0 \$0 \$0 \$0 \$43,407 \$373,185 \$2,903,707 2016 \$284,262 \$27,723 \$16,124 \$0 \$331,741 \$57,693 \$0 \$0 \$0 \$0 \$57.693 \$389,434 \$3,120,559 \$27,232 \$17,879 \$1,369 \$0 2017 \$285,261 \$1.643 \$0 \$347.713 \$57,693 \$0 \$0 \$0 \$0 \$57,693 \$405,407 \$3,335,555 2018 \$299,310 \$28.695 \$18,066 \$369,540 \$0 \$0 \$0 \$0 \$57,693 \$427,233 \$3,551,337 2019 \$319 343 \$30.187 \$18,258 \$1,752 \$0 \$57,693 \$57,693 \$451,417 \$0 \$0 \$0 \$0 \$3,768,476 2020 \$341,990 \$31,629 \$18,455 \$1,651 \$0 \$393,724 \$57,693 \$412,559 \$0 \$0 \$0 \$57.693 \$470.252 \$3,983,904 \$358,579 \$33,258 \$18,657 \$2,065 \$0 \$57,693 \$0 2021 \$4,199,931 \$360.734 \$35,196 \$26,479 \$2,428 \$0 \$424.838 \$79,304 \$0 \$0 \$0 \$0 \$70,299 \$495,137 2022 \$0 \$0 \$0 \$520,442 \$4,416,185 \$37,135 \$32,111 \$2,304 \$0 \$441,138 \$79,304 \$0 \$79,304 2023 \$369,587

2024

\$38,968

\$32,376

\$0

\$0

\$0

\$0

\$79,304

\$550,860

\$4,634,179

\$471,557 \$79,304

\$1,986

\$0

^{\$398,226} (1) Fixed costs are included only for new unit additions.

Bidder A 5-Year Limited Bidder A Natural Gas

Case Description

Scenario: Sensitivity. Initial Unit Addition

TCEC NFP Base Case TCEC Bidder A 5-Year Natural gas limits on Bidder A Economic Parameters CPW Discount Rate: 5.0% 2.5% 2005 Capital Escalation Rate: Base Year for \$

Financial Parameters Fixed Charge Rate: Interest During Const.: Finance Term (yrs): Plant Life: 7.754% 5.0% 30 30

			Generation A	dditions			
		2005	Construction	Month/Day	Year	Installed	Levelized
Unit	Size	Capital Cost	Period	Installed	Installed	Cost	Cost
	(MW)	(\$1,000)	(months)	(mm/dd)	(year)	(\$1,000)	(\$1,000)
Bidder A 5-Year	300			01/01	2008		
1x1 7FA	301	217,672	22	06/01	2013	259,897	20,152
LM6000	47.5	32,176	8	06/01	2015	41,950	3,253
Supercritical PC	250	315,963	54	06/01	2016	442,199	34,288
IXI 7FA	301	177.325	22	06/01	2022	278,702	21,611

			Production Co	ost					Capital C	Cost				Cumulative
•	Fuel and					Total		Existing	Other	Other	Other	Total	Total	Present
	Energy	O	&M		l	Production	Unit Capital	Bidder A	Capital	Capital	Capital	Capital	System	Worth
Year	Cost	Variable	Fixed1	Start-Up	Shut-Down	Cost	Cost	Contract Savings	Expenditures	Expenditures	Expenditures	Cost	Cost	Cost
	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
2005	\$250,607	\$45,475	\$0	\$2,626	\$0	\$298,708	\$0	-\$147	\$0	\$0	\$0	-\$147	\$298,561	\$298,561
2006	\$239,948	\$47,399	\$0	\$2,664	\$0	\$290,012	\$0	-\$459	\$0	\$0	\$0	-\$459	\$289,553	\$574,325
2007	\$229,451	\$39,457	\$0	\$1,772	\$0	\$270,680	\$0	-\$804	\$0	\$0	\$0	-\$804	\$269,876	\$819,110
2008	\$254,453	\$31,851	\$26,280	\$2,110	\$0	\$314,694	\$0	-\$816	\$0	\$0	\$0	-\$816	\$313,878	\$1,090,250
2009	\$283,942	\$34,341	\$26,820	\$2,113	\$0	\$347,215	\$0	-\$840	\$0	\$0	\$0	-\$840	\$346,375	\$1,375,214
2010	\$277,603	\$34,417	\$27,360	\$2,541	\$0	\$341,922	\$0	\$0	\$0	\$0	\$0	\$0	\$341,922	\$1,643,119
2011	\$263,310	\$34,861	\$27,936	\$2,541	\$0	\$328,648	\$0	\$0	\$0	\$0	\$0	\$0	\$328,648	\$1,888,361
2012	\$251,384	\$35,595	\$28,548	\$2,556	\$0	\$318,084	\$0	\$0	\$0	\$0	\$0	\$0	\$318,084	\$2,114,417
2013	\$257,974	\$29,873	\$12,601	\$1,611	\$0	\$302,059	\$20,152	\$0	\$0	\$0	\$0	\$11,756	\$313,815	\$2,326,819
2014	\$276,728	\$27,795	\$12,656	\$1,856	\$0	\$319,035	\$20,152	\$0	\$0	\$0	\$0	\$20,152	\$339,188	\$2,545,463
2015	\$298,740	\$29,186	\$13,357	\$1,814	\$0	\$343,097	\$23,405	\$0	\$0	\$0	\$0	\$22,050	\$365,146	\$2,769,631
2016	\$284,262	\$27,723	\$16,124	\$1,670	\$0	\$329,778	\$57,693	\$0	\$0	\$0	\$0	\$43,407	\$373,185	\$2,987,824
2017	\$285,261	\$27,232	\$17,879	\$1,369	\$0	\$331,741	\$57,693	\$0	\$0	\$0	\$ 0	\$57,693	\$389,434	\$3,204,676
2018	\$299,310	\$28,695	\$18,066	\$1,643	\$0	\$347,713	\$57,693	\$0	\$0	\$0	\$0	\$57,693	\$405,407	\$3,419,672
2019	\$319,343	\$30,187	\$18,258	\$1,752	\$0	\$369,540	\$57,693	\$0	\$0	\$0	\$0	\$57,693	\$427,233	\$3,635,453
2020	\$341,990	\$31,629	\$18,455	\$1,651	\$0	\$393,724	\$57,693	\$0	\$0	\$0	\$0	\$57,693	\$451,417	\$3,852,593
2021	\$358,579	\$33,258	\$18,657	\$2,065	\$0	\$412,559	\$57,693	\$0	\$0	\$0	\$0	\$57,693	\$470,252	\$4,068,021
2022	\$360,734	\$35,196	\$26,479	\$2,428	\$0	\$424,838	\$79,304	\$0	\$0	\$0	\$0	\$70,299	\$495,137	\$4,284,048
2023	\$369.587	\$37,135	\$32,111	\$2,304	\$0	\$441,138	\$79,304	\$0	\$0	\$0	\$0	\$79,304	\$520,442	\$4,500,302
2024	\$398,226	\$38,968	\$32,376	\$1,986	\$0	\$471,557	\$79,304	\$0	\$0	\$0	\$0	\$79,304	\$550,860	\$4,718,296

Notes:
(1) Fixed costs are included only for new unit additions.

Bidder A 20-Year Case Description Economic Parameters Financial Parameters TCEC NFP CPW Discount Rate: 5.0% Fixed Charge Rate 7.754% Scenario: 2.5% Base Case TCEC Capital Escalation Rate: Sensitivity. Interest During Const.: 5.0% Initial Unit Addition Bidder A 20-Year Base Year for \$ 2005 Finance Term (yrs): 30 Plant Life: 30 Generation Additions 2005 Month/Day Year Installed Levelized Construction Capital Cost Unit Period Installed Size Installed Cost Cost (\$1.000) (mm/dd) (\$1.000) (MW) (months) (year) (\$1.000) Bidder A 20-Year 300 01/01 2008 47.5 2015 LM6000 32,176 8 06/01 41,950 3,253 Supercritical PC 250 315,963 54 06/01 2016 442,199 34,288 LM6000 47.5 32,176 8 3,963 06/01 2023 51,112 LM6000 47.5 4,062 32,176 06/01 2024 52,390 Production Cost Capital Cost Cumulative Fuel and Total Existing Other Other Other Total Total Present Unit Capital Energy Production Bidder A Capital Capital Capital Capital System Worth Shut-Down Year Variable Fixed1 Start-Up Cost Cost Contract Savings Expenditures Expenditures Expenditures Cost Cost Cost Cost (\$1,000) (\$1000) (\$1,000)(\$1,000)(\$1,000)(\$1,000)(\$1,000) (\$1,000) (\$1,000) (\$1,000)(\$1,000)(\$1,000)(\$1,000) (\$1,000)2005 \$45,475 \$0 -\$147 -\$147 \$250,607 \$0 \$2,626 \$298,708 \$0 \$0 \$0 \$298,561 \$298,561 \$0 \$0 \$290,012 \$0 \$574,325 2006 \$239,948 \$47,399 \$0 \$2,664 \$0 -\$459 \$0 \$0 -\$459 \$289,553 2007 \$229,451 \$39,457 \$0 \$1,772 \$0 \$270,680 \$0 -\$804 \$0 \$0 \$0 -\$804 \$269,876 \$819,110 \$30,021 \$26,280 \$1,561 \$0 \$299,299 \$0 \$0 2008 \$241,437 \$0 -\$816 -\$816 \$298,483 \$1,076,951 \$0 2009 \$263,964 \$32,491 \$26,820 \$1,494 \$0 \$324,770 \$0 -\$840 \$0 \$0 \$0 -\$840 \$323,930 \$1,343,449 2010 \$255,039 \$31,359 \$27,360 \$1,774 \$0 \$315,531 \$0 \$0 \$0 \$0 \$0 \$0 \$315,531 \$1,590,676 2011 \$242,975 \$31,310 \$27,936 \$1,704 \$0 \$303,926 \$0 \$0 \$0 \$0 \$0 \$0 \$303,926 \$1,817,470 \$28,548 \$1,366 \$299,473 \$0. \$0 \$0 \$0 \$31,427 \$0 \$0 \$0 \$299,473 \$2,030,300 2012 \$238,132 \$0 \$328,983 \$0 \$0 \$328,983 \$29,124 \$0 \$0 \$0 \$0 \$2,252,968 2013 \$270,158 \$28,229 \$1,472 \$281,509 \$26,555 \$29,736 \$1,560 \$0 \$339,359 \$0 \$0 \$0 \$0 \$0 \$0 \$339,359 \$2,471,722 2014 2015 \$300,585 \$27,864 \$31,028 \$1,680 \$0 \$361,157 \$3,253 \$0 \$0 \$0 \$0 \$1,897 \$363,054 \$2,694,606 2016 \$279,078 \$26,541 \$34,385 \$1,653 \$0 \$341,656 \$37,541 \$0 \$0 \$0 \$0 \$23,254 \$364,911 \$2,907,962 \$37,541 \$0 \$0 \$0 2017 \$283,930 \$26,152 \$36,079 \$1,734 \$0 \$347,895 \$0 \$37,541 \$385,436 \$3,122,587 2018 \$297,193 \$27,511 \$36,206 \$1,888 \$0 \$362,798 \$37,541 \$0 \$0 \$0 \$0 \$37,541 \$400.339 \$3,334,895 2019 \$319,255 \$28,941 \$36,335 \$2,105 \$0 \$386,636 \$37,541 \$0 \$0 \$0 \$0 \$37,541 \$424,177 \$3,549,133 \$335,889 \$30,420 \$36,468 \$2,118 \$0 \$404,894 \$37,541 \$0 \$0 \$0 \$0 \$37,541 \$442,435 \$3,761,952 2020 \$2,505 \$0 \$0 \$0 \$0 \$465,275 \$3,975,100 2021 \$356,669 \$31,957 \$36,603 \$0 \$427,734 \$37,541 \$37,541

Notes

2022

2023

2024

\$378,169

\$403,545

\$428,393

\$33,617

\$35,153

\$36,954

\$37.541

\$41,504

\$45,566

\$2,728

\$2,526

\$2,145

\$36,743

\$37,670

\$39,206

\$0

\$0

\$0

\$451,256

\$478,893

\$506,699

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$37,541

\$39,853

\$43,874

\$488,797

\$518,746

\$550,573

\$4,188,361

\$4,403,910

\$4,621,791

⁽¹⁾ Fixed costs are included only for new unit additions.

Bidder A 20-Year Limited Bidder A Natural Gas

Case Description

Scenario: Sensitivity: Initial Unit Addition TCEC NFP Base Case TCEC Bidder A 20-Year Natural gas limits on Bidder A
 Financial Parameters

 Fixed Charge Rate.
 7.754%

 Interest During Const.:
 5.0%

 Finance Term (yrs).
 30

 Plant Life:
 30

			Generation A	dditions			
		2005	Construction	Month/Day	Year	Installed	Levelized
Unit	Size	Capital Cost	Period	Installed	installed	Cost	Cost
	(MW)	(\$1,000)	(months)	(mm/dd)	(year)	(\$1,000)	(\$1,000)
Bidder A 20-Year	300			01/01	2008		:
LM6000	47.5	32,176	8	06/01	2015	41,950	3,253
Supercritical PC	250	315,963	54	06/01	2016	442,199	34,288
LM6000	47.5	32,176	8	06/01	2023	51,112	3,963
LM6000	47.5	32,176	8	06/01	2024	52,390	4,062

			Production Co	est					Capital (Cost				Cumulative
	Fuel and					Total		Existing	Other	Other	Other	Total	Total	Present
	Energy	Ó	&M			Production	Unit Capital	Bidder A	Capital	Capital	Capital	Capital	System	Worth
Year	Cost	Variable	Fixed1	Start-Up	Shut-Down	Cost	Cost	Contract Savings	Expenditures	Expenditures	Expenditures	Cost	Cost	Cost
	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
2005	\$250,607	\$45,475	\$ 0	\$2,626	\$0	\$298,708	\$0	-\$147	\$0	\$0	\$0	-\$147	\$298,561	\$298,561
2006	\$239,948	\$47,399	\$0	\$2,664	\$0	\$290,012	\$0	-\$459	\$0	\$0	\$0	-\$459	\$289,553	\$574,325
2007	\$229,451	\$39,457	\$0	\$1,772	\$0	\$270,680	\$0	-\$804	\$0	\$0	\$0	-\$804	\$269,876	\$819,110
2008	\$254,453	\$31,851	\$26,280	\$2,110	\$0	\$314,694	\$0	-\$816	\$0	\$0	\$0	-\$816	\$313,878	\$1,090,250
2009	\$283,942	\$34,341	\$26,820	\$2,113	\$0	\$347,215	\$0	-\$840	\$0	\$0	\$0	-\$840	\$346,375	\$1,375,214
2010	\$279,812	\$34,924	\$27,360	\$3,194	\$0	\$345,290	\$0	\$0	\$0	\$0	\$0	\$0	\$345,290	\$1,645,758
2011	\$269,165	\$35,465	\$27,936	\$2,496	\$0	\$335,063	\$0	\$0	\$0	\$0	\$0	\$0	\$335,063	\$1,895,787
2012	\$262,276	\$35,933	\$28,548	\$1,895	\$0	\$328,652	\$0	\$0	\$0	\$0	\$0	\$0	\$328,652	\$2,129,354
2013	\$292,830	\$31,265	\$29,124	\$2,192	\$0	\$355,411	\$0	\$0	\$0	\$0	\$0	\$0	\$355,411	\$2,369,909
2014	\$305,298	\$27,769	\$29,736	\$3,030	\$0	\$365,832	\$0	\$0	\$0	\$0	\$0	\$0	\$365,832	\$2,605,728
2015	\$330,863	\$29,280	\$31,028	\$2,670	\$0	\$393,840	\$3,253	\$0	\$0	\$0	\$0	\$1,897	\$395,738	\$2,848,677
2016	\$307,169	\$27,584	\$34,385	\$2,523	\$0	\$371,661	\$37,541	\$0	\$0	\$0	\$0	\$23,254	\$394,915	\$3,079,576
2017	\$305,060	\$27,235	\$36,079	\$3,213	\$0	\$371,588	\$37,541	\$0	\$0	\$0	\$0	\$37,541	\$409,129	\$3,307,394
2018	\$329,871	\$29,094	\$36,206	\$2,703	\$0	\$397,873	\$37,541	\$0	\$0	\$0	\$0	\$37,541	\$435,414	\$3,538,303
2019	\$339,306	\$30,051	\$36,335	\$3,643	\$0	\$409,335	\$37,541	\$0	\$0	\$0	\$0	\$37,541	\$446,876	\$3,764,006
2020	\$368,440	\$31,623	\$36,468	\$2,911	\$0	\$439,443	\$37,541	\$0	\$0	\$0	\$ 0	\$37,541	\$476,983	\$3,993,443
2021	\$385,710	\$33,262	\$36,603	\$3,268	\$0	\$458,843	\$37,541	\$0	\$0	\$0	\$0	\$37,541	\$496,384	\$4,220,843
2022	\$407,833	\$35,009	\$36,743	\$4,011	\$0	\$483,596	\$37,541	\$0	\$0	\$0	\$0	\$37,541	\$521.137	\$4,448,213
2023	\$441,868	\$36,830	\$37,670	\$3,636	\$0	\$520,004	\$41,504	\$0	\$0	- \$0	\$0	\$39,853	\$559,857	\$4,680,845
2024	\$461,523	\$38,402	\$39,206	\$3,778	\$ 0	\$542,910	\$45,566	\$0	\$0	\$0	\$0	\$43,874	\$586,783	\$4,913,055

Notes:

⁽¹⁾ Fixed costs are included only for new unit additions.

Bidder B Case Description Economic Parameters Financial Parameters TCEC NFP CPW Discount Rate: 5.0% Fixed Charge Rate: 7.754% Scenario: Sensitivity: Base Case TCEC 2.5% Capital Escalation Rate: Interest During Const.: 5.0% Initial Unit Addition Bidder B Base Year for \$ 2005 Finance Term (yrs): 30 Plant Life: 30 Generation Additions 2005 Construction Month/Day Year Installed Levelized Unit Size Capital Cost Period installed installed Cost Cost (MW) (\$1,000) (months) (mm/dd) (year) (\$1.000)(\$1,000) Bidder B 300 01/01 2009 7EA CT 73 43,885 12 06/01 2015 57,446 4,454 Supercritical PC 250 315,963 54 06/01 2016 442,199 34,288 1X1 7FA 301 197,200 22 06/01 2023 332,690 25,797 Production Cost Capital Cost Cumulative Fuel and Total Other Other Other Total Total Present Energy Production Unit Capital Capital Capital Capital Capital Capital System Worth Year Variable Start-Up Shut-Down Expenditures Cost Fixed1 Cost Cost Expenditures Expenditures Expenditures Cost Cost Cost (\$1,000)(\$1,000)(\$1,000)(\$1,000)(\$1000)(\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) 2005 \$250,607 \$45,475 \$0 \$2,626 \$0 \$298,708 \$0 \$0 \$0 \$0 \$0 \$0 \$298,708 \$298,708 \$47,399 \$0 2006 \$239,948 \$0 \$2,664 \$0 \$290,012 \$0 \$0 \$0 \$0 \$0 \$290,012 \$574,909 2007 \$39,457 \$0 \$1,772 \$270,680 \$0 \$0 \$0 \$229,451 \$0 \$0 \$0 \$0 \$270,680 \$820,424 \$251,384 \$1,085,402 2008 \$32,976 \$21,600 \$785 \$0 \$306,746 \$0 \$0 \$0 \$0 \$0 \$0 \$306,746 \$332,442 2009 \$274,384 \$35,617 \$21,564 \$876 \$0 \$332,442 \$0 \$0 \$0 \$0 \$0 \$0 \$1,358,903 2010 \$269,386 \$34,813 \$21,492 \$975 \$0 \$326,666 \$0 \$0 \$0 \$0 \$0 \$0 \$326,666 \$1,614,854 2011 \$250,300 \$36,107 \$21,456 \$1,085 \$0 \$308,948 \$0 \$0 \$0 \$0 \$0 \$0 \$308,948 \$1,845,396 2012 \$250,382 \$35,632 \$45,339 \$813 \$332,166 \$0 \$0 \$0 \$0 \$0 \$0 \$332,166 \$2,081,460 2013 \$275,992 \$30,826 \$45,187 \$692 \$0 \$352,697 \$0 \$0 \$0 \$0 \$0 \$0 \$352,697 \$2,320,179 2014 \$291,950 \$27,850 \$45,034 \$708 \$0 \$365,542 \$0 \$0 \$0 \$0 \$0 \$365,542 \$2,555,811 2015 \$313,321 \$29,458 \$45,540 \$645 \$0 \$388,963 \$4,454 \$0 \$0 \$0 \$0 \$2,598 \$391,562 \$2,796,196 \$372,438 \$396,894 \$926 \$38,742 \$0 \$0 \$0 \$3,028,251 2016 \$295,826 \$27,635 \$48,051 \$0 \$0 \$24,456 \$372,453 \$49,743 \$0 \$38,742 \$0 \$0 \$0 \$0 \$38,742 2017 \$294,503 \$27,004 \$1,205 \$411,196 \$3,257,220 \$28,432 \$390.865 \$38,742 \$0 \$38,742 \$429,608 2018 \$311,301 \$49,866 \$1,265 \$0 \$0 \$0 **\$**0 \$3,485,050 2019 \$330,068 \$29,862 \$49,993 \$1,159 \$0 \$411,082 \$38,742 \$0 \$0 \$0 \$0 \$38,742 \$449.824 \$3,712,242 \$38,742 \$50,122 \$1,158 \$430,919 \$0 \$0 \$0 \$0 \$38,742 \$469,662 2020 \$348,268 \$31,371 \$0 \$3,938,157 \$50,255 \$452,565 \$38,742 \$0 \$0 \$38,742 \$491,307 \$4,163,231 2021 \$368,200 \$32,923 \$1,187 \$0 \$0 \$0 \$480.718 \$38,742 \$0 \$519,461 2022 \$394,597 \$34,594 \$50,392 \$1,137 \$0 \$0 \$0 \$0 \$38,742 \$4,389,870

Notes

2023

2024

\$36.341

\$38.383

\$401.582

\$414,793

\$58.494

\$64,334

\$1,241

\$1,444

\$0

\$0

\$497,657

\$518,954

\$64,539

\$64,539

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$53,791

\$64,539

\$551,448

\$583,493

\$4,619,008

\$4,849,916

⁽¹⁾ Fixed costs are included only for new unit additions.

		G	eneration Addit	tions				T
	1	2005	Construction	Month/Day	Year	Installed	Levelized	Ī
Unit	Size	Capital Cost	Period	Installed	installed	Cost	Cost	l
	(MW)	(\$1,000)	(months)	(mm/dd)	(year)	(\$1,000)	(\$1,000)	
								1
Bidder C Option 1 Escalating	311			01/01	2009			
3 LM6000	142.5	96,550	8	06/01	2008	105,897	8,211	1
Supercritical PC	250	315,963	54	06/01	2019	476.200	36,925	1
1		-						1

			Production Co	st					Capital C	Cost				Cumulative
ı	Fuel and					Total		Other	Other	Other	Other	Total	Total	Present
	Energy		&M		1	Production	Unit Capital	Capital	Capital	Capital	Capital	Capital	System	Worth
Year	Cost	Variable	Fixed1	Start-Up	Shut-Down	Cost	Cost	Expenditures	Expenditures	Expenditures	Expenditures	Cost	Cost	Cost
	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
2005	\$250,607	\$45,475	\$0	\$2,626	\$0	\$298,708	\$0	\$0	\$0	\$0	\$0	\$0	\$298,708	\$298,708
2006	\$239,948	\$47,399	\$0	\$2,664	\$0	\$290,012	\$0	\$0	\$0	\$0	\$0	\$0	\$290,012	\$574,909
2007	\$229,451	\$39,457	\$0	\$1,772	\$0	\$270,680	\$0	\$0	\$0	\$0	\$0	\$0	\$270,680	\$820,424
2008	\$262,688	\$32,326	\$1,624	\$1,586	\$0	\$298,225	\$8,211	\$0	\$0	\$0	\$0	\$4,790	\$303,014	\$1,082,179
2009	\$258,527	\$32,029	\$30,643	\$1,455	\$0	\$322,654	\$8,211	\$0	\$0	\$0	\$0	\$8,211	\$330,865	\$1,354,382
2010	\$253,521	\$31,403	\$45,791	\$1,136	\$0	\$331,851	\$8,211	\$0	\$0	\$0	\$0	\$8,211	\$340,062	\$1,620,830
2011	\$235,420	\$31,735	\$46,722	\$1,484	\$0	\$315,361	\$8,211	\$0	\$0	\$0	\$0	\$8,211	\$323,573	\$1,862,285
2012	\$232,446	\$32,182	\$47,692	\$1,033	\$0	\$313,354	\$8,211	\$0	\$0	\$0	\$0	\$8,211	\$321,565	\$2,090,815
2013	\$260,872	\$29,639	\$54,325	\$967	\$0	\$345,802	\$8,211	\$0	\$0	\$0	\$0	\$8,211	\$354,014	\$2,330,425
2014	\$273,149	\$27,716	\$49,676	\$1,194	\$0	\$351,735	\$8,211	\$0	\$0	\$0	\$0	\$8,211	\$359,946	\$2,562,449
2015	\$296,878	\$29,115	\$50,689	\$1,119	\$0	\$377,800	\$8,211	\$0	\$0	\$0	\$0	\$8,211	\$386,012	\$2,799,427
2016	\$312,500	\$30,638	\$51,742	\$1,259	\$0	\$396,139	\$8,211	\$0	\$0	\$0	\$0	\$8,211	\$404,350	\$3,035,842
2017	\$330,130	\$31,949	\$51,826	\$1,459	\$0	\$415,364	\$8,211	\$0	\$0	\$0	\$0	\$8,211	\$423,576	\$3,271,705
2018	\$347,633	\$33,356	\$51,913	\$1,674	\$0	\$434,576	\$8,211	\$0	\$0	\$0	\$0	\$8,211	\$442,787	\$3,506,524
2019	\$333,025	\$31,791	\$54,400	\$1,872	\$0	\$421,088	\$45,136	\$0	\$0	\$0	\$0	\$29,751	\$450,838	\$3,734,228
2020	\$337,100	\$31,198	\$56,286	\$1,651	\$0	\$426,235	\$45,136	\$0	\$0	\$0	\$0	\$45,136	\$471,370	\$3,960,966
2021	\$356,994	\$32,592	\$56,484	\$1,804	\$0	\$447,873	\$45,136	\$0	\$0	\$0	\$0	\$45,136	\$493,009	\$4,186,819
2022	\$376,499	\$34,027	\$56,687	\$1,626	\$0	\$468,839	\$45,136	\$0	\$0	\$0	\$0	\$45,136	\$513,975	\$4,411,064
2023	\$396,070	\$35,506	\$56,895	\$1,970	\$0	\$490,440	\$45,136	\$0	\$0	\$0	\$0	\$45,136	\$535,576	\$4,633,607
2024	\$426,630	\$37,181	\$57,108	\$1,931	\$0	\$522,849	\$45,136	\$0	\$0	\$0	\$0	\$45,136	\$567,985	\$4,858,378

Notes:

⁽¹⁾ Fixed costs are included only for new unit additions.

Bidder C Option 1 Levelized Case Description Economic Parameters Financial Parameters Fixed Charge Rate: TCEC NFP CPW Discount Rate: 5.0% 7.754% Scenario: Base Case TCEC Sensitivity: Capital Escalation Rate: 2.5% Interest During Const. 5.0% Initial Unit Addition Bidder C Option 1 Levelized 2005 Finance Term (yrs): Base Year for \$ 30 Plant Life: 30 Generation Additions 2005 Construction Month/Day Installed Levelized Period Unit Size Capital Cost installed Installed Cost Cost (\$1,000) (MVV) (months) (mm/dd) (year) (\$1,000) (\$1,000) Bidder C Option 1 Levelized 311 01/01 2009 31 M6000 142.5 96,550 8 06/01 2008 105,897 8,211 Supercritical PC 250 315,963 54 06/01 2019 476,200 36,925 Production Cost Capital Cost Cumulative Fuel and Total Other Other Other Other Total Total Present Energy 0&M Unit Capital Production Capital Capital Capital Capital Capital Worth System Year Cost Variable Fixed1 Start-Up Shut-Down Cost Cost Expenditures Expenditures Expenditures Expenditures Cost Cost Cost (\$1,000) (\$1,000) (\$1,000)(\$1,000)(\$1000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000)2005 \$45,475 \$2,626 \$0 \$298,708 \$0 \$250,607 \$0 \$0 \$0 \$0 \$0 \$0 \$298,708 \$298,708 2006 \$239,948 \$47,399 \$0 \$2,664 \$0 \$290,012 \$0 \$0 \$0 \$0 \$0 \$0 \$574,909 \$290,012 2007 \$39,457 \$1,772 \$229,451 \$0 \$0 \$270,680 \$0 \$0 \$0 \$0 \$0 \$0 \$270,680 \$820,424 2008 \$262,688 \$32,326 \$1,624 \$1,586 \$0 \$298,225 \$8,211 \$0 \$0 \$0 \$0 \$4,790 \$303.014 \$1,082,179 2009 \$258,527 \$32,029 \$52,475 \$1,455 \$0 \$344,486 \$8,211 \$0 \$0 \$0 \$0 \$8,211 \$352,697 \$1,372,344 2010 \$253,521 \$31,403 \$52,546 \$1,136 \$0 \$338,605 \$8,211 \$0 \$0 \$0 \$0 \$8,211 \$346,817 \$1,644,084 2011 \$235,420 \$31,735 \$52,619 \$1,484 \$0 \$321,258 \$8,211 \$0 \$0 \$0 \$0 \$8,211 \$329,469 \$1,889,939 2012 \$32,182 \$52,693 \$1,033 \$0 \$318,355 \$8,211 \$0 \$232,446 \$0 \$0 \$0 \$8,211 \$326,566 \$2,122,023 2013 \$260,872 \$29,639 \$52,770 \$967 \$0 \$344,247 \$8,211 \$0 \$0 \$0 \$0 \$8,211 \$352,459 \$2,360,581 \$273,149 \$52,848 \$1,194 \$0 \$354,907 \$0 \$0 \$0 2014 \$27,716 \$8,211 \$0 \$8,211 \$363,118 \$2,594,650 2015 \$296,878 \$29,115 \$52,928 \$1,119 \$380,039 \$8,211 \$0 \$0 \$0 \$0 \$8,211 \$388,251 \$2,833,002 2016 \$312,500 \$30,638 \$53,011 \$1,259 \$0 \$397,408 \$8,211 \$0 \$0 \$0 \$0 \$8,211 \$405,619 \$3,070,159 2017 \$330,130 \$31,949 \$1,459 \$8,211 \$0 \$53,095 \$0 \$416,633 \$0 \$0 \$0 \$8,211 \$424,845 \$3,306,729 2018 \$347,633 \$33,356 \$53,182 \$1,674 \$0 \$435,845 \$8,211 \$0 \$0 \$0 \$0 \$8,211 \$444,056 \$3,542,221 \$422,357 \$333,025 \$31,791 \$55,669 \$1,872 \$45,136 \$0 \$0 2019 \$0 \$0 \$0 \$29,751 \$452,107 \$3,770,566 \$57,555 \$1,651 \$427,503 \$45,136 \$45,136 \$472,639 2020 \$337,100 \$31,198 \$0 \$0 \$0 \$0 \$0 \$3,997,913 2021 \$57,753 \$1,804 \$0 \$449,142 \$45,136 \$0 \$0 \$356,994 \$32,592 \$0 \$0 \$45,136 \$494,278 \$4,224,348 \$34,027 \$57,956 \$1,626 \$0 \$470,108 \$45,136 \$0 \$0 \$0 \$45,136 2022 \$376,499 \$0 \$515,244 \$4,449,147

Notes

2023

2024

\$396,070

\$426,630

\$35,506

\$37,181

\$58,164

\$58,377

\$1,970

\$1,931

\$0

\$0

\$491,709 \$45,136

\$524,118 \$45,136

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$45,136

\$45,136

\$536,845

\$569,254

\$4.672.217

\$4,897,490

⁽¹⁾ Fixed costs are included only for new unit additions.

Bidder C Option 2 Escalating Economic Parameters Financial Parameters Case Description TCEC NFP CPW Discount Rate: 5.0% Fixed Charge Rate 7.754% Scenario: 2.5% 5.0% Sensitivity. Base Case TCEC Capital Escalation Rate: Interest During Const.; Base Year for \$ 2005 Finance Term (yrs): 30 Initial Unit Addition Bidder C Option 2 Escalating Plant Life: 30 Generation Additions 2005 Month/Day Year Installed L evelized Construction Unit Capital Cost Period installed Installed Cost Cost Size (MW) (\$1,000) (mm/dd) (year) (\$1.000) (\$1,000) (months) 01/01 2009 311 Bidder C Option 2 Escalating 2,737 47.5 32.183 06/01 2008 35,299 LM6000 12 06/01 2008 48,327 3,747 73 43,885 7EA CT Cumulative Production Cost Capital Cost Total Other Other Other Other Total Total Present Fuel and Production Unit Capital Capital Capital Capital Capital Worth Capital System Energy Fixed1 Shut-Down Cost Cost Expenditures Expenditures Expenditures Expenditures Cost Cost Cost Year Cost Variable Start-Up (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000)(\$1000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000) (\$1,000)\$298,708 \$2,626 \$0 \$298,708 \$0 \$0 \$0 \$0 \$0 \$0 \$298,708 2005 \$250,607 \$45,475 \$0 2006 \$47,399 \$0 \$2,664 \$0 \$290,012 \$0 \$0 \$0 \$0 \$0 \$0 \$290,012 \$574,909 \$239,948 \$0 \$820,424 2007 \$229,451 \$39,457 \$0 \$1,772 \$0 \$270,680 \$0 \$0 \$0 \$0 \$0 \$270,680 \$300,615 \$6,484 \$0 \$0 \$0 \$0 \$3,783 \$304,398 \$1,083,374 \$265,092 \$32,774 \$1,031 \$1,718 \$0 2008 \$6,484 \$0 \$6,484 \$329,541 \$1,354,488 \$0 2009 \$255,977 \$30,506 \$34,706 \$1,868 \$0 \$323,057 \$0 \$0 \$242,032 \$28,657 \$47,653 \$1,430 \$0 \$319,772 \$6,484 \$0 \$0 \$0 \$6,484 \$326,256 \$1,610,118 2010 \$1,848,186 \$6,484 \$0 \$0 \$319,034 \$312,549 \$6,484 \$0 \$0 2011 \$225,121 \$25,163 \$61,111 \$1,154 \$0 \$0 \$0 \$0 \$6,484 \$332,860 \$2,084,743 \$75,626 \$513 \$0 \$326,375 \$6,484 \$0 2012 \$227,130 \$23,105 \$6,484 \$351,601 \$2,322,721 \$345,117 \$6,484 \$0 \$0 \$0 \$23,487 \$77,046 \$773 \$0 \$0 2013 \$243 810 \$78,544 \$367,753 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$374,237 \$2,563,958 \$743 \$0 2014 \$264,154 \$24,312 \$6,484 \$395,055 \$281 734 \$25,748 \$0 \$0 \$2,806,487 \$80,119 \$970 \$0 \$388,571 \$6,484 \$0 \$0 2015 \$0 \$0 \$6,484 \$411,228 \$3,046,924 \$404 743 \$6,484 \$0 \$0 \$1,035 \$0 2016 \$294,964 \$27,049 \$81,695 \$432,792 \$3,287,919 \$315,172 \$0 \$6,484 \$1,121 \$780 \$0 \$426,308 \$6,484 \$0 \$0 \$0 \$28,265 \$81,749 2017 \$0 \$6,484 \$451,372 \$3,527,291 \$0 \$444,888 \$6,484 \$0 \$0 \$0 \$81,804 2018 \$332,774 \$29,530 \$6,484 \$351,201 | \$30,725 \$956 \$0 \$464,742 \$6,484 \$0 \$0 \$0 \$0 \$471,226 \$3,765,292 \$81,860 2019 \$486,229 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$492,714 \$4,002,296 \$371,215 \$31,972 \$81,918 \$1,124 \$0 2020 \$1,442 \$516,397 \$4,238,864 \$33,268 \$81,977 \$0 \$509,913 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$393,226 2021 \$528,125 \$0 \$0 \$0 \$0 \$6.484 \$534,609 \$4,472,112 \$1,506 \$0 \$6,484 \$34,553 \$82,037 2022 \$410,028 \$0 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$558,573 \$4,704,210

2023

2024

\$432,277

\$463,089 \$37,456

\$36,032

\$82,099

\$82,163

\$6,484

\$0

\$0

\$6,484

\$590,966

\$4,938,075

\$552.089

\$584,481

\$0

\$1,680

\$1,772

⁽¹⁾ Fixed costs are included only for new unit additions.

Bidder C Option 2 Levelized Economic Parameters Case Description Financial Parameters CPW Discount Rate: TCEC NEP 5.0% 7.754% Fixed Charge Rate: Scenario: Sensitivity. Base Case TCEC Capital Escalation Rate: 2.5% Interest During Const.: 5.0% Bidder C Option 2 Levelized Base Year for \$ 2005 Finance Term (yrs): Initial Unit Addition 30 Plant Life: 30 Generation Additions 2005 Construction Month/Day Year Installed Levelized Unit Size Capital Cost Period installed installed Cost Cost (MW) (\$1,000) (months) (mm/dd) (year) (\$1,000) (\$1,000) 01/01 2009 Bidder C Option 2 Levelized 311 LM6000 47.5 32,183 8 06/01 2008 35,299 2.737 7EA CT 73 43,885 12 48,327 06/01 2008 3,747 Production Cost Capital Cost Cumulative Fuel and Total Other Other Other Other Total Total Present Production Unit Capital Energy Capital Capital Capital Capital Capital Worth System Expenditures Variable Fixed¹ Start-Up Shut-Down Cost Cost Expenditures Year Cost Expenditures Expenditures Cost Cost Cost (\$1,000) (\$1,000) (\$1,000)(\$1,000) (\$1000) (\$1,000) (\$1,000) (\$1,000)(\$1,000) (\$1,000) (\$1.000)(\$1,000) (\$1,000) (\$1,000) 2005 \$250,607 \$45,475 \$2,626 \$0 \$298,708 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$298,708 \$298,708 2006 \$239,948 \$47,399 \$0 \$2,664 \$0 \$290,012 \$0 \$0 \$0 \$0 \$0 \$290,012 \$574,909 \$229,451 \$39,457 \$0 \$0 2007 \$1,772 \$270,680 \$0 \$0 \$0 \$0 \$0 \$0 \$270,680 \$820,424 2008 \$265,092 \$32,774 \$1,031 \$1,718 \$0 \$300,615 \$6,484 \$0 \$0 \$0 \$0 \$3,783 \$304,398 \$1,083,374 2009 \$255,977 \$30,506 \$40,754 \$1,868 \$0 \$329,105 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$335,589 \$1,359,464 2010 \$242,032 \$28,657 \$55,082 \$1,430 \$0 \$327,201 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$333,685 \$1,620,915 \$1,154 2011 \$225,121 \$25,163 \$69,410 \$0 \$320,849 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$327,333 \$1,865,176 2012 \$227,130 \$23,105 \$84,389 \$513 \$0 \$335,138 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$341,623 \$2,107,961 \$773 2013 \$243,810 \$23,487 \$84,438 \$0 \$352,508 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$358,993 \$2,350,941 2014 \$264,154 \$24,312 \$84,488 \$743 \$0 \$373,697 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$2,596,009 \$380,181 \$970 \$0 \$0 2015 \$281,734 \$25,748 \$84,539 \$392,991 \$6,484 \$0 \$0 \$0 \$6,484 \$399,475 \$2,841,252 2016 \$294,964 \$27,049 \$84,591 \$1,035 \$0 \$407,639 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$414,123 \$3,083,382 \$1,121 2017 \$315,172 \$28,265 \$84,644 \$0 \$429,203 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$435,688 \$0 \$0 2018 \$332,774 \$29,530 \$84,699 \$780 \$447,783 \$6,484 \$0 \$0 \$0 \$6,484 \$454,268 \$3,566,897 2019 \$351,201 \$30,725 \$84,756 \$956 \$0 \$467,638 \$6,484 \$0 \$0 \$0 \$0 \$6,484 \$474,122 \$3,806,360 \$6,484 \$371,215 \$31,972 \$1,124 \$0 \$489,125 \$6,484 \$0 \$0 \$0 2020 \$84,813 \$0 \$495,609 \$4,044,757 \$6,484 2021 \$393,226 \$33,268 \$84.872 \$1,442 \$0 \$512,808 \$6,484 \$0 \$0 \$0 \$0 \$519,293 \$4,282,651 \$1,506 \$0 \$6,484 \$0 \$0 2022 \$410,028 \$34,553 \$84,933 \$531,020 \$0 \$0 \$6,484 \$537,505 \$4,517,163

otes, (1) Fixed costs are included only for new unit additions.

\$432,277

\$463,089

\$36,032

\$37,456

\$84,995

\$85,059

2023

2024

\$6,484

\$6,484

\$0

\$0

\$0 \$0 \$0

\$0

\$0

\$0

\$6,484

\$6,484

\$561,468

\$593,861

\$4,750,464

\$4,985,475

\$554,984

\$587,377

\$0

\$0

\$1,680

\$1,772